

SAP Master Data Governance Master & Upgrade Master Guide for MDG 9.0

Document History



Caution

Before you start the implementation, make sure you have the latest version of this document. You can find the latest version under service.sap.com/instguides ➤ *SAP Business Suite Applications* ➤ *SAP Master Data Governance* ➤ *SAP Master Data Governance 9.0* ➤.

The following table provides an overview of the most important document changes.

Table 1

Version	Date	Description
1.2	2016-10-12	Final Version

Content

1	Getting Started	5
1.1	About this Document	5
1.2	Related Information	5
	Related Guides	5
1.3	Important SAP Notes	5
2	SAP Master Data Governance: Installation and Upgrade Overview	7
2.1	Business Processes in Solution Manager	16
	MDG, Consolidation and Mass Processing	17
	MDG, Central Governance	29
2.2	Data Cleansing and Merging: Updating the Status of the Cleansing Case	45
2.3	Address Screening	45
2.4	Combined Usage of SAP Master Data Governance Applications with SAP Industry Solutions	47
2.5	Upgrade Paths	47
	Upgrading MDG to MDG 9.0	47
2.6	Upgrade of Software Components	48
	Generic Information Regarding Upgrades to MDG 9.0	48
	Application-Specific Information Regarding Upgrades to MDG 9.0	52
2.7	Software Component Matrix	68
2.8	System Landscape	68
	System Landscape for the MDG Hub	68
	Modeling in PPMS	70
2.9	Installation Options and Upgrade Sequence	71
	Installation sequence	71



1 Getting Started

1.1 About this Document

This Master Guide is the central starting point for the technical implementation of business processes for SAP Master Data Governance 9.0.

This Master Guide provides an overview of processes in SAP Master Data Governance and related software units from a technical perspective. You can use this guide as a planning tool to help you design your system landscape.

1.2 Related Information

1.2.1 Related Guides

Table 2

Content	Location on SAP Help Portal or SAP Service Marketplace
ERP EhP8 Master Guide	service.sap.com/erp-ehp8-inst 
MDG 9.0 Operations Guide	service.sap.com/instguides  ▶ SAP Business Suite Applications ▶ SAP Master Data Governance ▶ SAP Master Data Governance 9.0 ▶
MDG 9.0 Configuration Guides	http://help.sap.com Under ▶ Data Management ▶ SAP Master Data Governance ▶ SAP Master Data Governance 9.0 ▶
MDG 9.0 Security Guide	http://help.sap.com Under ▶ Data Management ▶ SAP Master Data Governance ▶ SAP Master Data Governance 9.0 ▶

1.3 Important SAP Notes

You must read these SAP Notes before you start the installation or upgrade. These SAP Notes contain the most recent information on the upgrade, as well as corrections to the upgrade documentation. Make sure that you have the up-to-date version of each SAP Note, which you can find on SAP Service Marketplace at service.sap.com/notes.

Table 3

SAP Note Number	Title	Description
2291824 	Master Data Governance 9.0 Release Information Note	Release Information Note
2344014 	SPAU Adjustment for R3TR CLAS Deliveries	Correction
1995680 	SAP Fiori for SAP MDG 1.0	Release Information Note
2302823 	UI for MDG, Consolidation and Mass Processing Applications 2.0	Release Information Note
1690202 	MDG & Industry Solutions	SAP Consultant Note
2248866 	Add-On SAP MDG 9.0 on SAP ERP 6.0 EHP8	Installation Information
1685823 	Release Strategy for SAP Master Data Governance	Release Planning Information
2303116 	SAP Master Data Governance 9.0 Browser	Release Planning Information
2105467 	MDG Performance	Performance

2 SAP Master Data Governance: Installation and Upgrade Overview

Before you activate the MDG 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 `PFCG`, 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 (for example `MM`, `BP`, or `OG`) and the values for the authorization activity `ACTVT` Activity (for example *01: Create or generate*, or *02: Change*).

The following business functions are available with EhP6:

- Master Data Governance, Generic Functions 2 (`MDG_FOUNDATION_2`)
This business function provides you with enhanced basic features for data modeling, process enhancement and configuration, analytics, and data replication framework and transfer.
- Master Data Governance for Supplier on Hub (ERP) (`MDG_ERP_SUPPLIER_2`)
This business function extends the business function **Master Data Governance for Supplier** (`MDG_ERP_SUPPLIER`) and enables you to govern supplier master data and to replicate the supplier master data to a variety of different business systems.
- Master Data Governance for Customer (`MDG_ERP_CUSTOMER_1`)
This business function enables you to govern customer data and to replicate the customer master data to different client systems.
- Business Foundation: Services for Business Partner (`CA_BP_SOA`)
This business function allows you to activate a number of BADIs to override the standard mapping with customer specific mapping of the supplier and customer replication services. The BADIs are available for Master Data Governance for Supplier and Master Data Governance for Customer.
- Master Data Governance for Customer on Client (ERP) (`MDG_CUST_ERPCLIENT_1`)
This business function provides features for decentralized customer master data governance. It enables you to search and compare corresponding data on the hub system, before creating or changing customer master data on a client system. If the customer data is not already available on the client you can copy the customer master data from the hub system to the client system. This data afterwards can be edited in the client system. Though there is no technical dependency, the business function **Master Data Governance for Customer on Client (ERP)** is intended to be used in combination with the business function **Master Data Governance for Customer** (`MDG_ERP_CUSTOMER_1`) on the MDG hub system.
- Master Data Governance for Financials on Hub (`MDG_FINANCIALS_3`)
This business function provides features to establish a governance process for financial master data. New features include Importing Company Data, SOA Services for Consolidation Systems, Integration with Financial Shared Service Center, and remote where-used list allowing you to search for entity types in your attached remote system.
- Master Data Governance for Material 2 (`MDG_MATERIAL_2`)
This business function allows you to improve the governance process for your material master data, providing a more flexible user interface, support for the classic workflow template, support for long material numbers, and change management for classification data.

The following graphic shows the dependencies for MDG business functions between EHP4 of SAP ERP 6.0, EHP5 of SAP ERP 6.0, and EHP6 of SAP ERP 6.0:

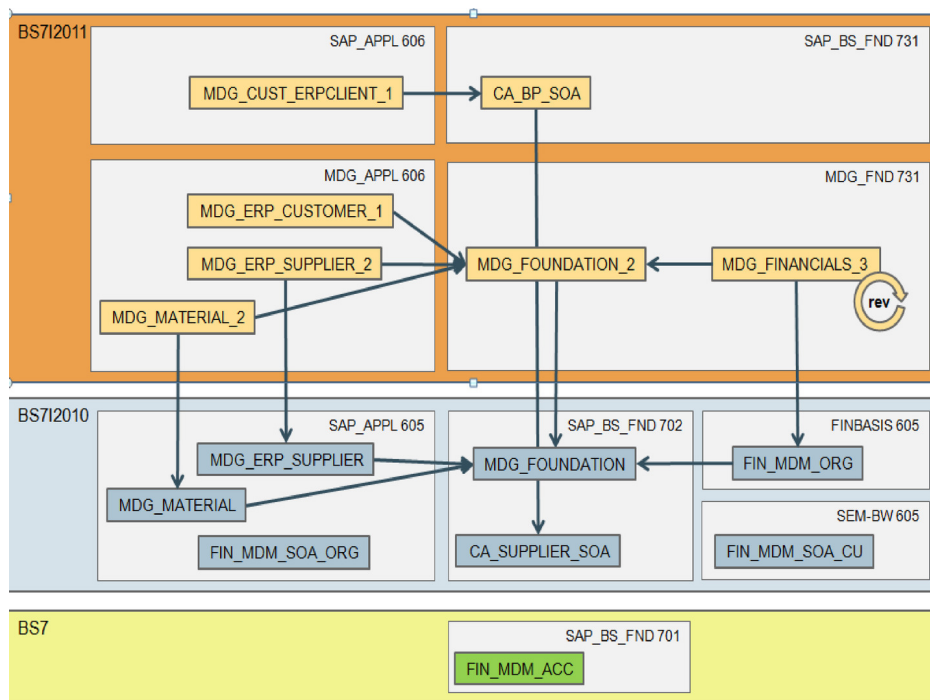


Figure 1: Dependencies for MDG business functions between EHP4, EHP5 and EHP6

If you want to use MDG-C and MDG-S at the same time, you must upgrade both applications to EhP6. This means you must activate the following business functions:

- MDG_ERP_CUSTOMER_1
- MDG_ERP_SUPPLIER
- MDG_ERP_SUPPLIER_2

The following business functions are available with SAP Master Data Governance 6.1:

- Master Data Governance, Generic Functions 3 (MDG_FOUNDATION_3)
This business function provides you with features for governance scope, block list, and data quality remediation.
- Master Data Governance for Supplier 6.1 (MDG_ERP_SUPPLIER_3)
This business function enables you to govern supplier data and to replicate the supplier master data to different client systems. In comparison to the predecessor business function MDG_ERP_SUPPLIER_2 additional tables of the data model for supplier are taken into account.
- Master Data Governance for Customer 6.1 (MDG_ERP_CUSTOMER_2)
This business function enables you to govern customer data and to replicate the customer master data to different client systems. In comparison to the predecessor business function MDG_ERP_CUSTOMER_1 additional tables of the data model for customer are taken into account.
- Master Data Governance for Material 3 (MDG_MATERIAL_3)
This business function updates the MM data model to add the process controlling data needed for Material Requirements Planning (MRP), Purchasing, Storage data on plant level, Sales and Accounting in addition to the already existing Basic Data and Classification.
- Master Data Governance for Material Services (Reversible)

This business function provides SOA services to create/change material in MDG by Change Request (Inbound).

The following graphic shows the dependencies for MDG business functions between EHP6 of SAP ERP 6.0 and SAP Master Data Governance 6.1:

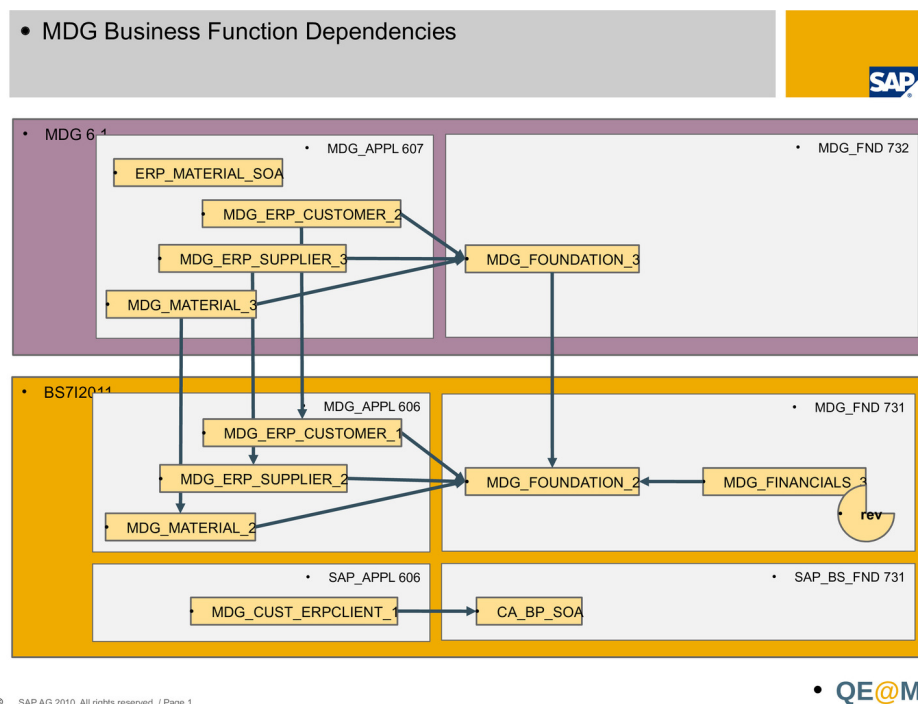


Figure 2: Dependencies for MDG business functions between EHP6 and MDG 6.1

The following business functions are available with SAP Master Data Governance 7.0:

- Master Data Governance, Generic Functions 7.0 (MDG_FOUNDATION_4)
This business function provides you with features for parallel change requests, flexible edition management, multiple-record processing, enhanced usability in single-object processing and searching, and SAP HANA-based search.
- Master Data Governance for Business Partner 7.0 (MDG_BUPA_1)
This business function enables you to govern business partner data and to replicate the business partner master data into different client systems. The [Master Data Governance for Business Partner 7.0](#) business function offers a central work center, business partner categories, extensibility of the data model, governance scope, import of master data, search, data cleansing and merging, change requests, single object processing, staging area, data quality services, authorization check, automated distribution, and key and value mapping.
- Master Data Governance for Supplier 7.0 (MDG_ERP_SUPPLIER_4)
This business function enables you to govern supplier data and to replicate the supplier master data to different client systems. The [Master Data Governance for Supplier 7.0](#) business function offers one-step creation of relationships, data cleansing and merging, SAP HANA search, and using IBAN for bank details.
- Master Data Governance for Customer 7.0 (MDG_ERP_CUSTOMER_4)
This business function enables you to govern customer data and to replicate the customer master data to different client systems. The [Master Data Governance for Customer 7.0](#) business function offers list features, one-step creation of relationships, and enhanced CRM integration.

- Master Data Governance for Material 7.0 (MDG_MATERIAL_4)

This business function provides a multiple-record processing function for material, DMS integration, an enhanced search results list with a display and navigation options, an extended data model, and enhanced print forms.

- Master Data Governance for Financials 7.0 (MDG_FINANCIALS_4)

This business function provides new user interfaces, an enhanced data replication, an enhanced data model OG, an enhanced edition management, new initial load functionality, and changes in the work center.

The following graphic shows the dependencies for MDG business functions between SAP Master Data Governance 6.1 and SAP Master Data Governance 7.0:

- MDG 7.0 Business Function Dependencies

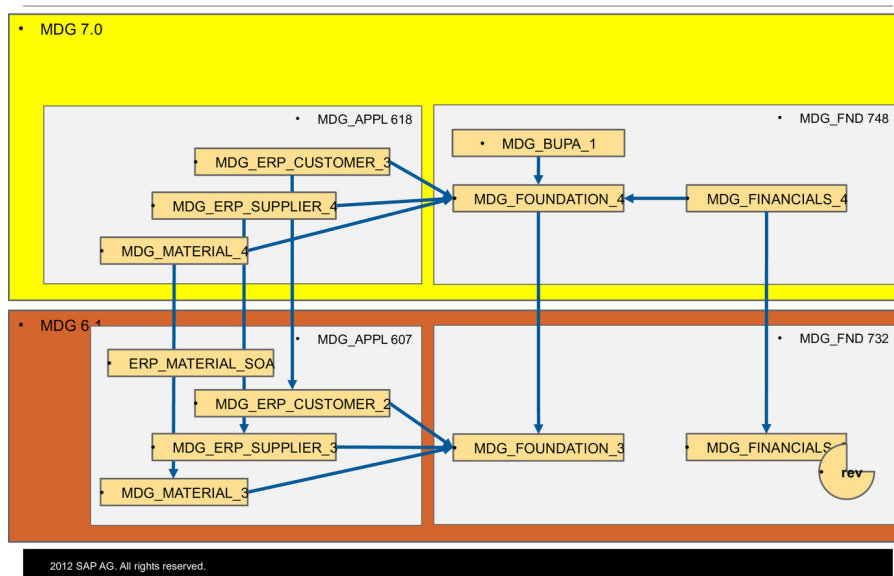


Figure 3: Dependencies for MDG business functions between MDG 6.1 and MDG 7.0

The following business functions and additional features are available with SAP Master Data Governance 7.0 Feature Pack:

- Master Data Governance, Generic Functions 7.0 Feature Pack (MDG_FOUNDATION_5)

This business function provides you with features for highlighting changes, undo changes, hierarchy processing, using editions, accessing UI configurations, and SAP HANA-based search.

- Master Data Governance for Material 7.0 Feature Pack (MDG_MATERIAL_5)

This business function provides a new UI for change numbers on the material level, a new UI to enable searching with a variety of search providers including SAP HANA search with and without characteristics, highlighting for changes in single-object processing, and a new BAdI to define alternative filter providers for search.

- Master Data Governance for Financials 7.0 Feature Pack (MDG_FINANCIALS_5)

This business function provides changeable IDs for MDG-F entity types, multi-copying for accounts in company code, one-step creation of accounts and their related primary cost elements, enhanced BCV content to display changed fields, enhanced search capabilities with an out-of-the-box integration of SAP HANA Search, and simplified user interfaces with new MDG-F Fiori applications.

- Master Data Governance for Supplier 7.0 Feature Pack (MDG_ERP_SUPPLIER_5)
This business function offers the possibility to change the ERP vendor account group, IBAN without BIC, new role specific user interfaces, a link between ERP vendor and ERP customer, change request types adapted for highlight changes, and change request types for SAP Fiori.
- Master Data Governance for Customer 7.0 Feature Pack (MDG_ERP_CUSTOMER_4)
This business function offers the possibility to change the ERP customer account group, template for distributed workflow, IBAN without BIC, new role specific user interfaces, a link between ERP customer and ERP vendor, change request types adapted for highlight changes, and change request types for SAP Fiori.
- Master Data Governance for Business Partner 7.0 Feature Pack (MDG_BUPA_2)
This business function offers IBAN without BIC, change request types adapted for highlight changes, and change request types for SAP Fiori.
- MDG Fiori Apps
The following SAP Fiori apps are available with SAP Master Data Governance 7.0 Feature Pack:
 - MDG Request Customer
With the transactional app MDG Request Customer, you can request a new customer for an organization or person.
 - MDG Request Supplier
With the transactional app MDG Request Supplier, you can request a new supplier for an organization or person.
 - MDG Request Business Partner
With the transactional app MDG Request Business Partner, you can request a new business partner for an organization or person.
 - MDG Request Material
With the transactional app MDG Request Material, you can request a new material for an organization.
 - MDG Request Cost Center
With the transactional app MDG Request Cost Center, you can request a new cost center for an organization.
 - MDG Request Profit Center
With the transactional app MDG Request Profit Center, you can request a new profit center for an organization.
 - MDG Track My Requests
With the transactional app MDG Track My Requests, you can display all of your master data requests.
- SAP MDG Enablement for SAP Smart Business
With SAP MDG enablement for SAP Smart Business you can configure an analytical dashboard for the governance process. This enables you to monitor key performance indicators (KPIs), service level agreements (SLAs), and alerts to identify deviations in processes with corresponding follow-up actions to solve issues. With Master Data Governance 7.0 Feature Pack, SAP delivers a report to generate the required views for SAP HANA which can be used for SAP Smart Business and other BI clients. For information on the configuration of MDG process analytics and on the generation of SAP HANA content in customer-owned systems, see SAP note [2005301](#) .

The following graphic shows the dependencies for MDG business functions between SAP Master Data Governance 7.0 and SAP Master Data Governance 7.0 Feature Pack:

MDG 7.0 FP Business Function Dependencies

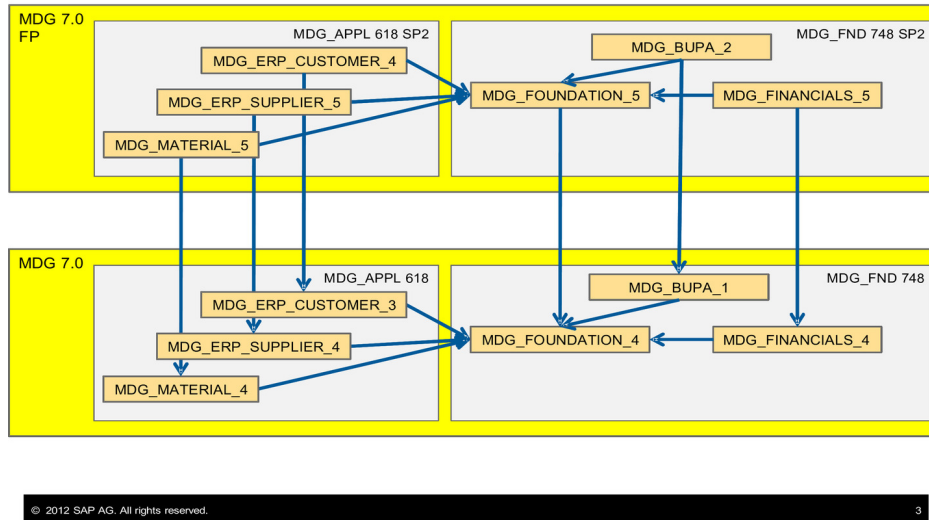


Figure 4: Dependencies for MDG business functions between MDG 7.0 and MDG 7.0 Feature Pack

The following business functions and additional features are available with SAP Master Data Governance 8.0:

- MDG, Consolidation
 - Master Data Governance for Customer, Consolidation 8.0 (Reversible) (MDG_CONSOLIDATION_CUSTOMER)

This business function enables you to consolidate your customer master data using the step types standardization, matching, best record calculation, validation, and activation. Each step type can be configured and adapted to your requirements.
 - Master Data Governance for Supplier, Consolidation 8.0 (Reversible) (MDG_CONSOLIDATION_SUPPLIER)

This business function enables you to consolidate your supplier master data using the step types standardization, matching, best record calculation, validation, and activation. Each step type can be configured and adapted to your requirements.
- MDG, Central Governance
 - Master Data Governance, Generic Functions 8.0 (MDG_FOUNDATION_6)

This business function provides an enhanced and simplified hierarchy management in SAP Master Data Governance. This makes the user interface more intuitive, speeds up the approval process, and offers an improved processing of multiple changes. A simplified generation of data model-specific DataSources allows the efficient execution of analytical reports. In addition, the automatic creation of change requests for mass changes and file upload provides additional efficiency in these processes.
 - Master Data Governance for Material 8.0 (MDG_MATERIAL_6)

This business function provides enhancements to the data model and UIs for production version, quality inspection setup, MRP areas, and Material ledger. This business function also provides a new drill-down help pop-up for the product hierarchy and enhancements to the multi-record processing including language-dependent texts, form UIBBs, UI configurations, and materials/sub-objects from a change request.
 - Master Data Governance for Financials 8.0 (MDG_FINANCIALS_6)

This business function provides enhancements for the data model OG for the entity types for account, account in company code, cost center, cost element, and profit center. This business function also provides the ability to upload group accounts from SAP ERP to MDG-F as items. Additional features regarding the enhanced and simplified hierarchy management become available, when you activate the business function Master Data Governance, Generic Functions 8.0 (MDG_FOUNDATION_6).

- MDG Fiori Apps

The following SAP Fiori apps are available with SAP Master Data Governance 8.0:

- Approve Master Data

With the transactional app Approve Master Data you can approve MDG master data change requests for new or changed master data. Once a request is submitted by requestor, it has to be approved by senior steward to create/change the master data in MDG. This app enables an approver to see the details of requested master data and approve/reject it accordingly. You can use this app for the Cost Center and Profit Center objects.

- Master Data Governance, Consolidation

With the transactional app Master Data Governance, Consolidation you can run a process to consolidate and harmonize your master data. This includes steps for standardization, matching, best-record calculation, validation, activation, and replication.

- MDG HANA-Based Analytics

MDG HANA-Based Analytics provides you with queries for key roles in master data governance so that business users can analyze strategic or operational KPIs for processes on a single source of real-time information available for easy access to personalized insight to evaluate the situation in case of deviations and to trigger follow-up actions immediately.

The scope of analytics for master data governance processes has been enhanced by linking change request data to additional data such as master data attributes (for example, material master or vendor master), change documents or SAP Business Workflow information.

To make use of the analytical capabilities, it is required to generate the required HANA Content upfront. This can be done with the report MDG_ANA_HDB_GEN_REPO_CONTENT or the corresponding transaction MDG_GEN_HBA_CR_EXT. The content can then be consumed by analytical reporting tools such as SAP Smart Business.

The following graphic shows the dependencies for MDG business functions between SAP Master Data Governance 7.0 Feature Pack and SAP Master Data Governance 8.0:

- Master Data Governance for Custom Objects, Consolidation and Mass Processing 9.0 (MDG_CONSOLIDATION_CUSTOBJ_2)

This business function offers standardization, matching, best record calculation, validation, activation, mass processing, filter and remove, upper threshold, using services to trigger processes, using BRF+ rules in process steps, best record calculation review, system messages, adapt configuration within process, retention time, replace values and clear fields, audit trail, remove records from process, key mapping and value mapping, action control supporting the dual-control principle, display data changes in details UI, run MDG, central governance checks, and show all data from related tables.

- MDG, Central Governance

- Master Data Governance, Generic Functions 9.0 (MDG_FOUNDATION_7)

This business function offers enhanced configuration for change request actions, enhanced change request based navigation, improved usability of collective/hierarchy processing, and the enablement of pooled or direct replication for all business objects.

- Master Data Governance for Financials 9.0 (MDG_FINANCIALS_7)

This business function offers copying of accounts, enhanced BCV content to display hierarchy changes, and the enablement of mobile access through Fiori apps for approval of G/L accounts in Fiori.

- Master Data Governance for Supplier 9.0 (MDG_ERP_SUPPLIER_6)

This business function offers multiple-record processing, time-dependent business partner relationships, texts for ERP vendors, international address versions of contact persons' workplace addresses, long tax numbers, assignment of business partners to hierarchies from single-object processing UI, highlight deletions, data replication, and change request types for SAP Fiori.

- Master Data Governance for Customer 9.0 (MDG_ERP_CUSTOMER_5)

This business function offers multiple-record processing, time-dependent business partner relationships, texts for ERP customers, international address versions of contact persons' workplace addresses, long tax numbers, assignment of business partners to hierarchies from single-object processing UI, highlight deletions, data replication, and change request types for SAP Fiori.

- Master Data Governance for Business Partner 9.0 (MDG_BUPA_3)

This business function offers time-dependent business partner relationships, international address versions of contact persons' workplace addresses, long tax numbers, assignment of business partners to hierarchies from single-object processing UI, highlight deletions, data replication, and change request types for SAP Fiori.

- MDG Fiori Apps

The following SAP Fiori apps are available with SAP Master Data Governance 9.0:

- Approve Master Data - Extended

With the transactional app Approve Master Data - Extended you can approve MDG master data change requests for a new or changed master data. Once a request is submitted by requestor, it has to be approved by senior steward to create/change the master data in MDG. This app enables an approver to see the details of requested master data and approve/reject it accordingly. You can use this app for the Cost Center and Profit Center, Customer, Supplier, GL Account, and Material objects.

- Master Data Governance, Consolidation

With the transactional app Master Data Governance, Consolidation you can run a process to consolidate and harmonize your master data. This includes steps for standardization, matching, best-record calculation, validation, activation, and replication.

- Master Data Governance, Mass Processing

With the transactional app Master Data Governance, Mass Processing you can update multiple master data records at a time. The function is available for the material, business partner (including customer and vendor), and custom object domains.

To update records, you select the fields and records you want to change. The system then displays a list of fields to change based on your selection. Once you enter your changes, the system provides statistics on the changed fields and validates the data. You check the validated data and then activate it. Activation copies the data from the staging area to active memory, enabling the system to use it in business transactions.

- MDG HANA-Based Analytics

MDG HANA-based Analytics provides you with queries for key roles in master data governance so that business users can analyze strategic or operational KPIs for processes on a single source of real-time information available for easy access to personalized insight to evaluate the situation in case of deviations and to trigger follow-up actions immediately.

The scope of analytics for master data governance processes has been enhanced by analytical scenarios that cover the change analysis of critical attributes of master data objects.

Before you make use of the analytical capabilities, you need to generate the required HANA Content first. This can be done with the report MDG_ANA_HDB_GEN_REPO_CONTENT or the corresponding transaction MDG_GEN_HBA_CR_EXT.

MDG 9.0 Business Function Dependencies

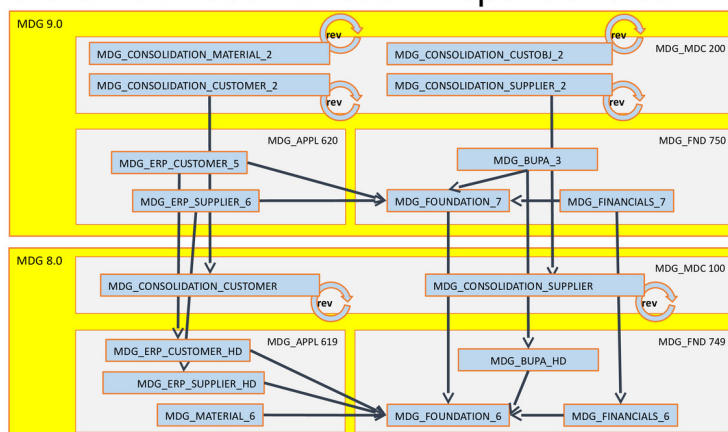


Figure 6: Dependencies for MDG business functions between MDG 8.0 and MDG 9.0

2.1 Business Processes in Solution Manager

Solution Manager content is available for *MDG, Consolidation*, *MDG, Mass Processing*, and *MDG, Central Governance*.

2.1.1 MDG, Consolidation and Mass Processing

Solution Manager content for *MDG, Consolidation and Mass Processing* is available for the following business processes:

- Consolidating Master Data with MDG
▶ [Organizational Areas](#) ▶ [Corporate Support and Services](#) ▶ [Business Processes](#) ▶ [Consolidating Master Data with MDG](#) ▶.
- Mass Processing of Master Data with MDG
▶ [Organizational Areas](#) ▶ [Corporate Support and Services](#) ▶ [Business Processes](#) ▶ [Mass Processing of Master Data with MDG](#) ▶.

These business process are valid for the following applications:

- Master Data Governance for Customer, Consolidation and Mass Processing
- Master Data Governance for Supplier, Consolidation and Mass Processing
- Master Data Governance for Material, Consolidation and Mass Processing
- Master Data Governance for Custom Objects, Consolidation and Mass Processing

2.1.1.1 Master Data Governance for Customer, Consolidation and Mass Processing

With *Master Data Governance for Customer, Consolidation and Mass Processing* you can consolidate your customer master data and update multiple customer master data records at a time using a sequence of process steps adapted to your requirements. Each individual step can be configured to meet your requirements.

Features

Standardization

Standardization normalizes and enriches data.

Matching

Matching checks data from various source systems and the active data for duplicates. Part of the matching is the match review to check possible duplicates.

Best Record Calculation

Best record calculation, results in a record containing the cumulated, most valuable data for each match group that is identified by the matching. This calculation follows a well defined process based on certain rules.

Validation

Validation checks whether the quality of a record is sufficient to meet the requirements defined in the back-end system. If the quality requirements are met data can be saved, if not corrections and data enrichment might be required.

Activation

As the final step the Activation moves the consolidated master data from the process data to the active data. Depending on the type and state of a master data record, activation can be done directly, can be done using change requests, if you use SAP MDG, central governance in parallel, or can be prohibited.

Filter and remove

The process step *filter and remove* enables you to remove a selection of records from the current consolidation process. According to your settings this selection of records then is moved to a new consolidation process or – in case of records with errors out of a validation process – further options can be applied. The process step filter and remove runs in the background without user interaction and can be used as successor of the following process steps:

- Matching
- Best record calculation
- Validation

Upper threshold

Within the process step matching you use the match review to rate possible matches. The upper threshold feature enables you to specify a value as of which two records are rated automatically as a match without having to be checked in the match review process.

Using services to trigger processes

You can use services for data replication as a vehicle to trigger consolidation and mass processes for the corresponding records.

Using BRFplus rules in process steps

You can make use of BRFplus rules to adapt your data on table and field level within the following process steps:

- Standardization
- Validation
- Best record calculation
- Update

Best record calculation review

The *Review Best Records* screen gives you an overview on the results of the best record calculation. It shows you in detail how the best records were calculated. In addition you can manually edit the best record.

System messages

System Messages such as Errors and Exceptions are displayed for individual process steps. If errors or exceptions occurred this is visualized by the color of the process step icon:

- Green: No errors or exceptions occurred
- Orange: Errors or exceptions occurred.

Messages are displayed in the system message area of the process step screen. For messages related to specific data records links to the details are offered.

- Red: Process step failed.

Adapt configuration within process

Within a consolidation process, most customizing settings, that are specified in the process template can be adapted to the specific needs of a current consolidation process.

These adjustments are only valid for the consolidation process you are working with and do not persistently change the Customizing settings.

Retention time

You can specify a period of time in which the KPIs and processed data persist to be displayed. In this case the deletion of all relevant data at the end of the process step activation is postponed:

- During the retention time you can review the corresponding KPIs and process data.
- When the retention time is over, the activation is finalized and all process specific KPIs and data is deleted.

You can configure the retention time in the Customizing and you can adapt it in the UI.

Replace values and clear fields

Certain process steps of the consolidation process allow you to manually replace values of fields or to clear the fields' content completely. This function is not offered for the process steps best record calculation, matching, and activation.

Audit trail

The audit trail lists all events that take place within a process, such as starting and finishing a process step or changing process parameters. It displays an abstract for each event in a time line. The abstracts contain information such as user name, timestamp, short description of the event. The audit trail pane can be displayed or hidden.

Remove records from process

This feature enables you to split a consolidation process so that a certain set of records can be transferred to a follow up process while the main process can be finalized with the remaining set of records:

- It is possible to select the records for the split based on filter criteria defined in the UI.
- You can select the records from the [Show Results](#) and the [Match Review](#) screens as well as from process *KPI* screen.
- You can navigation between the main and follow up processes.
- The follow up process offers the possibility to work on the record.

Key mapping and value mapping

Additional adapters for the process step standardization support key and value mapping. If you run the process step standardization with the adapters for key mapping or value mapping, all relevant fields of a business partner or material key mapping or value mapping are read and replaced by the retrieved values.

Action control supporting the four-eyes principle

This feature enables you to restrict the amount of processors for a certain process steps: You can specify a selection of users that may continue with the next process step:

- Any user with the required authorization
- The user that created the process
- Any user with the required authorization except the user that created the process. This enables you to establish a four-eyes principle.

Display data changes in details UI

This feature enables you in certain process steps to compare data before and after the process step. Changed values are highlighted with a link that opens a box showing both, the new and the old value of the field.

Run MDG, central governance checks

This feature enables you to run checks for the process steps validation and activation based on rules you have specified in MDG, central governance. The feature is only offered if you have activated the business functions for MDG, central governance.

Show all data from related tables

This feature offers you details to the processed records. The [Show Result](#) link offers all records displayed on an [Overview](#) tab and on an individual tab for each table.

2.1.1.2 Master Data Governance for Supplier, Consolidation and Mass Processing

With [Master Data Governance for Supplier, Consolidation and Mass Processing](#), you can consolidate your supplier master data and update multiple supplier master data records at a time, using a sequence of process steps adapted to your requirements. Each individual step can be configured to meet your requirements.

Features

Standardization

Standardization normalizes and enriches data.

Matching

Matching checks data from various source systems and the active data for duplicates. You can specify thresholds as of what accordance sets of data are considered to a match group. Part of the matching is the match review to check possible duplicates.

Best Record Calculation

The process step best record calculation, calculates a record containing the cumulated, most valuable data for each match group that is identified by the process step matching. This calculation follows a well defined process based on certain rules.

Validation

Within the process step validation the consolidation checks whether the quality of a record is sufficient to meet the requirements defined in the back-end system. If the quality requirements are met the data can be saved, if not corrections and data enrichment might be required.

Activation

As the final step of the Consolidation the Activation moves the consolidated master data from the process data to the active data. Depending on the type and state of a master data record, activation can be done directly, can be done using change requests, if you use SAP Master Data Governance in parallel, or can be prohibited.

Filter and remove

The process step [filter and remove](#) enables you to remove a selection of records from the current consolidation process. According to your settings this selection of records then is moved to a new consolidation process or – in case of records with errors out of a validation process – further options can be applied. The process step filter and remove runs in the background without user interaction and can be used as successor of the following process steps:

- Matching
- Best record calculation
- Validation

Upper threshold

Within the process step matching you use the match review to rate possible matches. The upper threshold feature enables you to specify a value as of which two records are rated automatically as a match without having to be checked in the match review process.

Using services to trigger processes

You can use services for data replication as a vehicle to trigger consolidation and mass processes for the corresponding records.

Using BRFplus rules in process steps

You can make use of BRFplus rules to adapt your data on table and field level within the following process steps:

- Standardization
- Validation
- Best record calculation
- Update

Best record calculation review

The [Review Best Records](#) screen gives you an overview on the results of the best record calculation. It shows you in detail how the best records were calculated. In addition you can manually edit the best record

System messages

System Messages such as Errors and Exceptions are displayed for individual process steps. If errors or exceptions occurred this is visualized by the color of the process step icon:

- Green: No errors or exceptions occurred
- Orange: Errors or exceptions occurred.

Messages are displayed in the system message area of the process step screen. For messages related to specific data records links to the details are offered.

- Red: Process step failed.

Adapt configuration within process

Within a consolidation process, most customizing settings, that are specified in the process template can be adapted to the specific needs of a current consolidation process.

These adjustments are only valid for the consolidation process you are working with and do not persistently change the Customizing settings.

Retention time

You can specify a period of time in which the KPIs and processed data persist to be displayed. In this case the deletion of all relevant data at the end of the process step activation is postponed:

- During the retention time you can review the corresponding KPIs and process data.
- When the retention time is over, the activation is finalized and all process specific KPIs and data is deleted.

You can configure the retention time in the Customizing and you can adapt it in the UI.

Replace values and clear fields

Certain process steps of the consolidation process allow you to manually replace values of fields or to clear the fields' content completely. This function is not offered for the process steps best record calculation, matching, and activation.

Audit trail

The audit trail lists all events that take place within a process, such as starting and finishing a process step or changing process parameters. It displays an abstract for each event in a time line. The abstracts contain information such as user name, timestamp, short description of the event. The audit trail pane can be displayed or hidden.

Remove records from process

This feature enables you to split a consolidation process so that a certain set of records can be transferred to a follow up process while the main process can be finalized with the remaining set of records:

- It is possible to select the records for the split based on filter criteria defined in the UI.
- You can select the records from the [Show Results](#) and the [Match Review](#) screens as well as from process *KPI* screen.
- You can navigation between the main and follow up processes.
- The follow up process offers the possibility to work on the record.

Key mapping and value mapping

Additional adapters for the process step standardization support key and value mapping. If you run the process step standardization with the adapters for key mapping or value mapping, all relevant fields of a business partner key mapping or value mapping are read and replaced by the retrieved values.

Action control supporting the four-eyes principle

This feature enables you to restrict the amount of processors for a certain process steps: You can specify a selection of users that may continue with the next process step:

- Any user with the required authorization
- The user that created the process
- Any user with the required authorization except the user that created the process. This enables you to establish a four-eyes principle.

Display data changes in details UI

This feature enables you in certain process steps to compare data before and after the process step. Changed values are highlighted with a link that opens a box showing both, the new and the old value of the field.

Run MDG, central governance checks

This feature enables you to run checks for the process steps validation and activation based on rules you have specified in MDG, central governance. The feature is only offered if you have activated the business functions for MDG, central governance.

Show all data from related tables

This feature offers you details to the processed records. The [Show Result](#) link offers all records displayed on an [Overview](#) tab and on an individual tab for each table.

2.1.1.3 Master Data Governance for Material, Consolidation and Mass Processing

With [Master Data Governance for Material, Consolidation and Mass Processing](#), you can consolidate material master data and update multiple material master data records at a time, using a sequence of process steps adapted to your requirements. Each individual step can be configured to meet your requirements.

Features

Standardization

Standardization normalizes and enriches data.

Matching

Matching checks data from various source systems and the active data for duplicates. Part of the matching is the match review to check possible duplicates.

Best Record Calculation

Best record calculation, results in a record containing the cumulated, most valuable data for each match group that is identified by the matching. This calculation follows a well defined process based on certain rules.

Validation

Validation checks whether the quality of a record is sufficient to meet the requirements defined in the back-end system. If the quality requirements are met data can be saved, if not corrections and data enrichment might be required.

Activation

As the final step of the consolidation the activation moves the consolidated master data from the process data to the active data. Depending on the type and state of a master data record, activation can be done directly, can be done using change requests, if you use [SAP MDG, central governance](#), in parallel, or can be prohibited.

Filter and remove

The process step [filter and remove](#) enables you to remove a selection of records from the current consolidation process. According to your settings this selection of records then is moved to a new consolidation process or – in case of records with errors out of a validation process – further options can be applied. The process step filter and remove runs in the background without user interaction and can be used as successor of the following process steps:

- Matching
- Best record calculation
- Validation

Upper threshold

Within the process step matching you use the match review to rate possible matches. The upper threshold feature enables you to specify a value as of which two records are rated automatically as a match without having to be checked in the match review process.

Using BRFplus rules in process steps

You can make use of BRFplus rules to adapt your data on table and field level within the following process steps:

- Standardization
- Validation
- Best record calculation
- Update

Best record calculation review

The [Review Best Records](#) screen gives you an overview on the results of the best record calculation. It shows you in detail how the best records were calculated. In addition you can manually edit the best record.

System messages

System Messages such as Errors and Exceptions are displayed for individual process steps. If errors or exceptions occurred this is visualized by the color of the process step icon:

- Green: No errors or exceptions occurred
- Orange: Errors or exceptions occurred.

Messages are displayed in the system message area of the process step screen. For messages related to specific data records links to the details are offered.

- Red: Process step failed.

Adapt configuration within process

Within a consolidation process, most customizing settings, that are specified in the process template can be adapted to the specific needs of a current consolidation process.

These adjustments are only valid for the consolidation process you are working with and do not persistently change the Customizing settings.

Retention time

You can specify a period of time in which the KPIs and processed data persist to be displayed. In this case the deletion of all relevant data at the end of the process step activation is postponed:

- During the retention time you can review the corresponding KPIs and process data.

- When the retention time is over, the activation is finalized and all process specific KPIs and data is deleted. You can configure the retention time in the Customizing and you can adapt it in the UI.

Replace values and clear fields

Certain process steps of the consolidation process allow you to manually replace values of fields or to clear the fields' content completely. This function is not offered for the process steps best record calculation, matching, and activation.

Audit trail

The audit trail lists all events that take place within a process, such as starting and finishing a process step or changing process parameters. It displays an abstract for each event in a time line. The abstracts contain information such as user name, timestamp, short description of the event. The audit trail pane can be displayed or hidden.

Remove records from process

This feature enables you to split a consolidation process so that a certain set of records can be transferred to a follow up process while the main process can be finalized with the remaining set of records:

- It is possible to select the records for the split based on filter criteria defined in the UI.
- You can select the records from the [Show Results](#) and the [Match Review](#) screens as well as from process *KPI* screen.
- You can navigation between the main and follow up processes.
- The follow up process offers the possibility to work on the record.

Key mapping and value mapping

Additional adapters for the process step standardization support key and value mapping. If you run the process step standardization with the adapters for key mapping or value mapping, all relevant fields of a business partner or material key mapping or value mapping are read and replaced by the retrieved values.

Action control supporting the four-eyes principle

This feature enables you to restrict the amount of processors for a certain process steps: You can specify a selection of users that may continue with the next process step:

- Any user with the required authorization
- The user that created the process
- Any user with the required authorization except the user that created the process. This enables you to establish a four-eyes principle.

Display data changes in details UI

This feature enables in certain process steps to compare data before and after the process step. Changed values are highlighted with a link that opens a box showing both, the new and the old value of the field.

Run MDG, central governance checks

This feature enables you to run checks for the process steps validation and activation based on rules you have specified in MDG, central governance. The feature is only offered if you have activated the business functions for MDG, central governance.

Show all data from related tables

This feature offers you details to the processed records. The [Show Result](#) link offers all records displayed on an [Overview](#) tab and on an individual tab for each table.

2.1.1.4 Master Data Governance for Custom Objects, Consolidation and Mass Processing

With [Master Data Governance for Custom Objects, Consolidation and Mass Processing](#), you can consolidate custom object master data and update multiple master data records at a time, using a sequence of process steps adapted to your requirements. Each individual step can be configured to meet your requirements.

Features

Standardization

Standardization normalizes and enriches data.

Matching

Matching checks data from various source systems and the active data for duplicates. Part of the matching is the match review to check possible duplicates.

Best Record Calculation

Best record calculation, results in a record containing the cumulated, most valuable data for each match group that is identified by the matching. This calculation follows a well defined process based on certain rules.

Validation

Validation checks whether the quality of a record is sufficient to meet the requirements defined in the back-end system. If the quality requirements are met data can be saved, if not corrections and data enrichment might be required.

Activation

As the final step of the consolidation the activation moves the consolidated master data from the process data to the active data. Depending on the type and state of a master data record, activation can be done directly, can be done using change requests, if you use [SAP MDG, central governance](#), in parallel, or can be prohibited.

Filter and remove

The process step [filter and remove](#) enables you to remove a selection of records from the current consolidation process. According to your settings this selection of records then is moved to a new consolidation process or – in case of records with errors out of a validation process – further options can be applied. The process step filter and remove runs in the background without user interaction and can be used as successor of the following process steps:

- Matching
- Best record calculation
- Validation

i Note

Filter and remove is a background step executed by the system without user interaction.

Upper threshold

Within the process step matching you use the match review to rate possible matches. The upper threshold feature enables you to specify a value as of which two records are rated automatically as a match without having to be checked in the match review process.

Using BRFplus rules in process steps

You can make use of BRFplus rules to adapt your data on table and field level within the following process steps:

- Standardization
- Validation
- Best record calculation
- Update

Best record calculation review

The *Review Best Records* screen gives you an overview on the results of the best record calculation. It shows you in detail how the best records were calculated. In addition you can manually edit the best record.

System messages

System Messages such as Errors and Exceptions are displayed for individual process steps. If errors or exceptions occurred this is visualized by the color of the process step icon:

- Green: No errors or exceptions occurred
- Orange: Errors or exceptions occurred.

Messages are displayed in the system message area of the process step screen. For messages related to specific data records links to the details are offered.

- Red: Process step failed.

Adapt configuration within process

Within a consolidation process, most customizing settings, that are specified in the process template can be adapted to the specific needs of a current consolidation process.

These adjustments are only valid for the consolidation process you are working with and do not persistently change the Customizing settings.

Retention time

You can specify a period of time in which the KPIs and processed data persist to be displayed. In this case the deletion of all relevant data at the end of the process step activation is postponed:

- During the retention time you can review the corresponding KPIs and process data.
- When the retention time is over, the activation is finalized and all process specific KPIs and data is deleted.

You can configure the retention time in the Customizing and you can adapt it in the UI.

Replace values and clear fields

Certain process steps of the consolidation process allow you to manually replace values of fields or to clear the fields' content completely. This function is not offered for the process steps best record calculation, matching, and activation.

Audit trail

The audit trail lists all events that take place within a process, such as starting and finishing a process step or changing process parameters. It displays an abstract for each event in a time line. The abstracts contain information such as user name, timestamp, short description of the event. The audit trail pane can be displayed or hidden.

Remove records from process

This feature enables you to split a consolidation process so that a certain set of records can be transferred to a follow up process while the main process can be finalized with the remaining set of records:

- It is possible to select the records for the split based on filter criteria defined in the UI.
- You can select the records from the [Show Results](#) and the [Match Review](#) screens as well as from process *KPI* screen.
- You can navigation between the main and follow up processes.
- The follow up process offers the possibility to work on the record.

Key mapping and value mapping

Additional adapters for the process step standardization support key and value mapping. If you run the process step standardization with the adapters for key mapping or value mapping, all relevant fields are read and replaced by the retrieved values.

Action control supporting the four-eyes principle

This feature enables you to restrict the amount of processors for a certain process steps: You can specify a selection of users that may continue with the next process step:

- Any user with the required authorization
- The user that created the process
- Any user with the required authorization except the user that created the process. This enables you to establish a four-eyes principle.

Display data changes in details UI

This feature enables you in certain process steps to compare data before and after the process step. Changed values are highlighted with a link that opens a box showing both, the new and the old value of the field.

Run MDG, central governance checks

This feature enables you to run checks for the process steps validation and activation based on rules you have specified in MDG, central governance. The feature is only offered if you have activated the business functions for MDG, central governance.

2.1.2 MDG, Central Governance

Solution Manager content for *MDG, Central Governance* is available for the following applications:

- Master Data Governance for Financials
▶ [Organizational Area](#) ▶ [Financials](#) ▶ [Business Processes](#) ▶ [Master Data Governance for Financials](#) ▶
- Master Data Governance for Material
▶ [Organizational Area](#) ▶ [Logistics](#) ▶ [Business Processes](#) ▶ [Master Data Governance for Material](#) ▶
- Master Data Governance for Customer
▶ [Organizational Area](#) ▶ [Sales](#) ▶ [Business Processes](#) ▶ [Master Data Governance for Customer](#) ▶
- Master Data Governance for Supplier
▶ [Organizational Area](#) ▶ [Procurement](#) ▶ [Business Processes](#) ▶ [Master Data Governance for Supplier](#) ▶
- Master Data Governance for Business Partner
▶ [Organizational Area](#) ▶ [Corporate Support and Services](#) ▶ [Business Processes](#) ▶ [Master Data Governance for Business Partner](#) ▶
- Master Data Governance for Custom Objects
▶ [Organizational Area](#) ▶ [Corporate Support and Services](#) ▶ [Business Processes](#) ▶ [Master Data Governance for Custom Objects](#) ▶

2.1.2.1 Master Data Governance for Financials (MDG-F)

The following features are available for governance of financial master data:

- **Copying of accounts**
When creating a G/L account, you can now save time and effort by copying the *Chart of Accounts and Company Code Data (With Template)* from an existing G/L account using the new *Copy* function on the *Search* screen. Alternatively, you can copy just the *Chart of Accounts Data*.
- **Enhanced BCV content to display hierarchy changes**
 - A new display option was added to the *Query Views*. In addition to displaying changes per change request, you can now also display only hierarchy-specific changes for a change request for a detailed overview.
- **Enablement of Mobile Access through Fiori Apps for Approval of G/L Accounts in Fiori**
 - You can now approve the creation of and changes to G/L accounts using the SAP Fiori app *Approve Master Data Request*.
- **Importing Company Data**
You can use enterprise services to import the entity type **Company** from remote systems (such as investment management systems) into SAP Master Data Governance for Financials. You can use BADIs for data importing to do this.
- **Remote Where-Used List**
You can search for entity types in your attached remote system, using either the screen on the UI, or using a Business Add-In, available in the Customizing structure.
- **SOA Services for Consolidation Systems**

You can use an outbound service to replicate financial master data to consolidation systems such as SAP BusinessObjects Financial Consolidation, SAP BusinessObjects Planning and Consolidation, and SAP SEM: BCS.

- **Integration with SAP Shared Service Center**

You can create change requests for MDG-F directly from the service requests of SAP Shared Service Center.

- **New User Interfaces**

With MDG 7.0 we have created new financial UIs to give a uniform look and feel to MDG

- **Enhanced Edition Management**

With MDG 7.0 you can use enhanced edition management to improve the flexibility in how you manage editions and schedule changes to edition-based business objects.

- **Change in Work Center and New Roles**

With MDG 7.0 we have introduced 3 new areas in the work center – accounting, controlling, and consolidation.

- **Changeable IDs for MDG-F entity types**

With MDG 7.0 SAP MDG-F allows you to use a default ID for your entity types initially, with the option to change them at a later stage of the creation process.

- **Multi-copying for accounts in company code**

With MDG 7.0 you can now copy existing company code data to one or more company codes when you select a G/L account.

- **One-step creation of accounts and their related primary cost elements**

With MDG 7.0 you can now create the primary cost elements that are part of the G/L account in the same process step.

- **Enhanced BCV content to display changed fields**

With MDG 7.0 context-relevant information can be displayed in the side panel to enhance the overview of the current data record.

- **Enhanced search capabilities with an out-of-the-box integration of SAP HANA Search**

With MDG 7.0 HANA Search methods are delivered for all MDGF objects, including freestyle search, fuzzy search, and similarity ranking.

- **Enhancements for Data Model OG**

- With MDG 8.0 the entity types for *Account* and *Account in Company Code* have been reviewed. The entity type for *Account* remains unchanged. The entity type for *Account in Company Code* was enhanced with the following fields:
 - Accounting Clerk (BUSAB)
 - Commitment Item (FIPOS)
 - Account Managed in External System (WMETH)
 - Reconciliation Account Ready for Input (XMITK)
 - Supplement for Automatic Postings (XNKON)
- The entity types for *Account*, *Account in Company Code*, *Cost Center*, *Cost Element* and *Profit Center* have each been enhanced with a new entity type with storage and use type 4 for storing SAP ERP audit information. This allows the *Created by* and *Created on* information to be transferred from SAP ERP systems into the central MDG system during an initial load of master data.

- **Group Accounts as Items**

- With MDG 8.0 it is possible to upload group accounts from SAP ERP (stored in table SKA1) to MDG-F as items (entity type FSI). The replication of items to SAP ERP as group accounts is also supported.
- The functionality includes:
 - Enhanced extraction criteria for MDMGX (Master Data Management Generic Extractor) in SAP ERP
 - Enhanced initial load functionality in MDG DIF (Data Import Framework)
 - Enhanced data replication for items

With MDG 8.0 additional features become available when you activate the business function *Master Data Governance, Generic Functions 8.0* (MDG_FOUNDATION_6):

- **Enhanced and Simplified Hierarchy Management**
 - For more information, see the section *Enhanced and Simplified Hierarchy Management* in *Master Data Governance, Generic Functions 8.0* [external document].

2.1.2.2 Master Data Governance for Material (MDG-M)

You can improve the governance process for your material master data. MDGM includes a more flexible user interface, support for the classic workflow template, support for long material numbers, change management for classification data, an enhanced data model, additional UI building blocks (UIBB), and enterprise services.

In addition you can now change material types. SAP recommends to use the option of changing material types before replication.

i Note

Master Data Governance for Material was intended to be used for workflow-driven, step-by-step maintenance of material data, and not to be a replacement of the material master backend transactions (MM01, MM02, and so on). Using MDG-M as a one-step material maintenance UI may lead to increased response times.

When you upgrade from EHP5 of SAP ERP 6.0 to the updated UI, you must perform all extensions previously made to the user interface again.

All UIs used for creating material and changing material have been replaced by new UIs with increased flexibility. You may need to re-implement features you implemented using the UI BAdI `USMD_UI_EVENT2` in EHP5.

When you upgrade from EHP5 of SAP ERP 6.0 or from EHP6 of SAP ERP 6.0 to MDG 6.1, check the information regarding data model enhancements in the upgrade chapter of this document.

When you upgrade from EHP6 of SAP ERP 6.0 to MDG 6.1, check the information regarding UI changes in the upgrade chapter of this document.

With MDG 7.0 the application Master Data Governance for Material offers the following features:

- **An enhanced search results list including display of organizational units and new navigation options**
- **Multiple-Record Processing for material**
- **BC sets containing navigation to support different multiple-record processing scenarios**
- **Enhancements to the data model to include warehouse management views and enhancements to the existing views**
- **DMS integration**
- **BC sets to support BCV (Business Context Viewer) content for MDG-M**
- **Enhanced print forms**

- **A new UI for change numbers on the material level**
- **A new UI to enable searching with a variety of search providers including SAP HANA search with and without characteristics**

With MDG 8.0 the application Master Data Governance for Material offers the following features:

- **Enhancements to the data model and UIs for:**
 - Production version
 - Quality inspection setup
 - MRP areas
 - Material ledger
- **New drill-down help pop-up for product hierarchy**
- **Enhancements to multi-record processing including:**
 - The ability to change language-dependent texts
 - The ability to use form UIBBs
 - Extended UI configurations
 - The ability to add, copy, remove, and discard materials/sub-objects from a change request
 - The ability to copy multiple materials with sub-objects when navigating from the search UI to an application based on the multiple record processing application pattern

2.1.2.3 Master Data Governance for Customer (MDG-C)

With Master Data Governance for Customer you can control the governance of customer master data on a central hub. Within the governance process change requests are used to control the creation and change of a customer. While the customer data is stored temporarily in the staging area, the change requests are forwarded automatically to a master data specialist for a revision. As soon as the change request is approved the new customer master data is stored in the existing ERP master data tables. The governance process includes a duplicate check using SAP BusinessObjects Data Services or third party tools to avoid the creation of duplicates and also supports data enrichment and data validation.

On the central hub you can:

- Govern customer data and replicate the customer master data to different client systems such as ERP, CRM or non-SAP systems
- Use mass data load to extract data from client systems and upload this data into the master data hub. The system supports the extraction of customer and business partner data from CRM and ERP systems throughout different releases - using SOA services for the current release, or in the case of previous releases, using the existing functions, for example iDocs.

Customer data can also be maintained on an ERP client system. There you can:

- Search the hub system from the ERP client system. The search on the hub system offers you a hit list sorted by similarity and indicating whether the data is located on the hub system exclusively or on the client system as well. If the data is only located on the hub the user can copy this data from the hub to the client.
- Create or change customers on the client system. These changes are directly stored in the client tables so that business processes can continue with this data. Additionally the customer data is replicated to the hub and a governance process for this customer is automatically started. After approval this customer is replicated to all relevant client systems.

With MDG 7.0 the application Master Data Governance for Customer offers the following features:

- **List features**

The list features offer various enhancements for the services to search, create, and change a customer.

- **One-step creation of relationships**

The *one step creation of relationships* enables you to enter relationship specific data referring to a business partner that is not yet recorded in the system. This means that you can edit relationships of a customer to a business partner that you create in parallel.

- **Enhanced CRM integration**

The *CRM integration* enables you to distribute a wider range of data into CRM client systems. As of *Master Data Governance for Customer 7.0* you can distribute ERP customer specific attributes such as sales area and partner functions. The data is mapped to the corresponding data structure provided by CRM.

- **Change of ERP customer account group**

The account group of an ERP customer assigned to an MDG business partner can now be changed within the MDG-C single object maintenance. The change of an account group on an operational ERP system can be loaded to MDG using the Import Master Data and replicated to other systems using ALE or SOA.

- **Template for distributed workflow**

The business function provides a new workflow template that fits to the common organizational setup to create customer master data: After the request is submitted the central data is verified by an approver.

- **IBAN without BIC**

MDGC fulfills the legal requirement of the *Single Euro Payments Area* (SEPA) to only maintain the *International Bank Account Number* (IBAN) for SEPA countries. The maintenance and generation of bank details (*Business Identifier Code* (BIC)) is not required anymore.

- **Link between ERP customer and ERP vendor**

The general data of an ERP customer contains a link to the corresponding ERP vendor. With the business function *Master Data Governance for Customer 7.0 Feature Pack* this field (KNA1-LIFNR) is part of the MDGC data model.

With MDG 8.0 the application Master Data Governance for Customer offers the following features:

- **MDG, Business Partner: Address Screening**

The *address screening* is based on the integration of *SAP Fraud Management*. It enables authorized users in change request processing in *SAP MDG, central governance* to perform the screening of a person or organization by *SAP Fraud Management*.

To use the *address screening* feature *SAP Fraud Management 1.1 SP07* or higher has to be installed and the *address screening* features of *SAP Fraud Management* have to be enabled. For information on *SAP Fraud Management* in general and on how to install and upgrade it, see the SAP Help Portal under help.sap.com/fraud.

- **Copy Customer Data**

This feature allows you to copy company code data and sales area data within a customer.

Within the mentioned data blocks you can choose *Copy*. This will copy the data reusing a predefined selection of the existing data.

The feature has been downported to *Master Data Governance 7.0 SP03*. For details and a possible pre-implementation, see SAP Note [2020896](#).

- **Create Business Partner with Reference**

This feature allows you to create a customer with reference to an existing record.

Within the hit list of an application you can select any record and choose [Copy](#). This will create a new record reusing a predefined selection of the existing data.

The feature has been downported to [Master Data Governance 7.0 SP03](#). For details and a possible pre-implementation, see SAP Note [2020896](#) .

With MDG 9.0 the application Master Data Governance for Customer offers the following features:

Multiple-Record Processing

The [Multiple-Record Processing](#) function enables you to edit a number of customer data records at the same time. [Multiple-Record Processing](#) offers a streamlined process, with a UI that enables you to create change requests for multiple records with greater efficiency. The function offers the following advantages:

- Multiple records can be updated directly from the search function
- Find and Replace feature to copy data to selected rows and to highlight rows with identical values
- [Highlight Changes](#) feature provides color coding for an easy identification of fields and values changed in the current change request
- Direct deletion of certain individual values and an option to discard changes

Time-Dependent Business Partner Relationships

You can now maintain validity dates for Business Partner relationships. You can define time restrictions and the cardinality for each relationship type.

Note

For more information, see SAP Note [2249877](#) .

Texts for ERP Customers

You can now enter explanatory texts for ERP customers on general level, and on company code and sales area level.

International Address Versions of Contact Persons' Workplace Addresses

You can now enter several versions of a contact person's workplace address in different character sets, e.g. Chinese or Cyrillic. This function has already been available for organizations and persons, and is now also available for workplace addresses. Additional fields are visible on the Fiori Lean Request UI of the Fiori App [Request Customer \(MDG\)](#).

Long Tax Numbers

You can now enter tax numbers with a length of up to 60 characters. This feature has now been made available for [SAP Master Data Governance 7.0](#) and higher.

Assignment of Business Partners to Hierarchies from Single-Object Processing UI

You can now assign Business Partners to hierarchies during the creation or change process. The UI also offers a value help for an easy identification of the relevant parent node.

Highlight Deletions

As an enhancement of the [Highlight Changes](#) feature, the [Highlight Deletions](#) feature is now available. It enables you to highlight deleted values, including deleted rows, that are shown in lists, and to restore the latest active version of the deleted record. The system highlights the relevant rows and displays deleted values as strikethrough, supporting you in quickly identifying items marked for deletion when checking change requests,

and offering a new, easy way to restore data. This feature was made available with *SAP Master Data Governance 8.0 SP02*.

Data Replication

Value mapping configuration is now available for all relevant fields. All relevant value mapping fields are assigned to a customizable value table. Field lists in the SAP Community Network at scn.sap.com/ provide information about the assigned value mapping.

Note

For more information about the above-mentioned field lists, see *Metadata About the Data Models* (www.sdn.sap.com/irj/scn/index?rid=%2Flibrary%2Fuuid%2F00e8f5e4-0c00-3010-58a8-917b3e07b426).

Further Links

The following table lists further useful links in the SAP Community Network (SCN).

Table 4

Content	Location on SCN
SAP Master Data Governance Community	scn.sap.com/community/mdm/master-data-governance
Configuration and Enhancement of SAP Master Data Governance	scn.sap.com/docs/DOC-7858
Customer/Supplier/Business Partner Data	scn.sap.com/docs/DOC-70744

Change Request Types for SAP Fiori

This business function provides the BC set CA-MDG-APP-BP_CR_ODATA_05 that is required to use SAP Fiori.

2.1.2.4 Master Data Governance for Supplier (MDG-S)

With Master Data Governance for Supplier you can control the governance of supplier master data on a central hub and on decentralized systems. The system uses change requests to control the creation and change of a supplier and the supplier data is stored temporarily. The change requests are forwarded automatically to a master data specialist. As soon as the change request is approved the new supplier master data is stored in the existing ERP master data tables. The quality of your data is improved through a structured governance process that prevents duplicate records. The workflow keeps the users informed of updates or changes to supplier master data. The requestor UI enables the user to request the creation or change of a supplier containing name and address without having authority for additional activities. The **Supplier Governance** work center enables access to the functions via the SAP NetWeaver Business Client and the SAP Enterprise Portal.

On the central hub you can govern supplier master data and replicate the supplier master data to different business systems such as ERP, SRM, or non-SAP systems. You can also use mass data load to extract data from a client system and upload this data into the master data hub. The system supports the extraction of supplier, vendor and business partner data from SRM and ERP systems throughout different releases – in the case of previous releases by using the existing functions.

With MDG 7.0 the application Master Data Governance for Supplier offers the following features:

- **One step creation of relationships**

The [one step creation of relationships](#) enables you to enter relationship-specific data referring to a business partner that is not yet recorded in the system. This means that you can edit relationships of a supplier to a business partner that you create in parallel.

- **Data cleansing and merging**

Potential duplicates can be found using the search or the duplicate check. If similar master data records are considered to be duplicates, a cleansing case can be created.

- **SAP HANA search**

The [SAP HANA search](#) provided with Master Data Governance for Supplier 7.0 offers you an error-tolerant search with a hit list ranked by relevance.

- **Using IBAN for bank details**

Within the [bank details](#) you can enter data for bank account, bank country and bank key and have an IBAN created automatically – or vice versa, you can enter an IBAN and the system calculates the corresponding data, using the IBAN information.

- **Change of ERP vendor account group**

The account group of an ERP vendor assigned to an MDG business partner can now be changed within the MDG-S single object maintenance. The change of an account group on an operational ERP system can be loaded to MDG using the Import Master Data and replicated to other systems using ALE or SOA.

- **IBAN without BIC**

MDGS fulfills the legal requirement of the [Single Euro Payments Area](#) (SEPA) to only maintain the [International Bank Account Number](#) (IBAN) for SEPA countries. The maintenance and generation of bank details ([Business Identifier Code](#) (BIC)) is not required anymore.

- **Link between ERP vendor and ERP customer**

The general data of an ERP vendor contains a link to the corresponding ERP customer. With the business function [Master Data Governance for Supplier 7.0 Feature Pack](#) this field (`LFA1-KUNNR`) is part of the MDGS data model. The maintenance dialog for ERP vendors in MDG-S enables you to link to the corresponding ERP customer.

With MDG 8.0 the application Master Data Governance for Supplier offers the following features:

- **MDG, Business Partner: Address Screening**

The [address screening](#) is based on the integration of [SAP Fraud Management](#). It enables authorized users in change request processing in [SAP MDG, central governance](#) to perform the screening of a person or organization by [SAP Fraud Management](#).

To use the [address screening](#) feature [SAP Fraud Management 1.1 SP07](#) or higher has to be installed and the [address screening](#) features of [SAP Fraud Management](#) have to be enabled. For information on [SAP Fraud Management](#) in general and on how to install and upgrade it, see the SAP Help Portal under help.sap.com/fraud.

- **Copy Supplier Data**

The new feature allows you to copy assigned vendors, company code data, and purchasing organizational data within a supplier.

Within the mentioned data blocks you can choose [Copy](#). This will copy the data reusing a predefined selection of the existing data.

This feature has been downported to [Master Data Governance 7.0 SP03](#). For details and a possible pre-implementation, see SAP Note [2020896](#).

- **Create Business Partner with Reference**

This feature allows you to create a supplier with reference to an existing record.

Within the hit list of an application you can select any record and choose [Copy](#). This will create a new record reusing a predefined selection of the existing data.

The feature has been downported to [Master Data Governance 7.0 SP03](#). For details and a possible pre-implementation, see SAP Note [2020896](#) .

- **Contact Person for ERP Vendor UI**

This feature offers a specific data block to process contact person data in the [ERP Vendor UI](#). The feature has been downported to [Master Data Governance 7.0 SP03](#). For details, see SAP Note [2055484](#) .

With MDG 9.0 the application Master Data Governance for Supplier offers the following features:

Multiple-Record Processing

The [Multiple-Record Processing](#) function enables you to edit a number of supplier data records at the same time. [Multiple-Record Processing](#) offers a streamlined process, with a UI that enables you to create change requests for multiple records with greater efficiency. The function offers the following advantages:

- Multiple records can be updated directly from the search function
- Find and Replace feature to copy data to selected rows and to highlight rows with identical values
- [Highlight Changes](#) feature provides color coding for an easy identification of fields and values changed in the current change request
- Direct deletion of certain individual values and an option to discard changes

Time-Dependent Business Partner Relationships

You can now maintain validity dates for Business Partner relationships. You can define time restrictions and the cardinality for each relationship type.

Note

For more information, see SAP Note [2249877](#) .

Texts for ERP Vendors

You can now enter explanatory texts for ERP vendors on general level, and on company code and purchasing organization level.

International Address Versions of Contact Persons' Workplace Addresses

You can now enter several versions of a contact person's workplace address in different character sets, e.g. Chinese or Cyrillic. This function has already been available for organizations and persons, and is now also available for workplace addresses. Additional fields are visible on the Fiori Lean Request UI of the Fiori App [Request Supplier \(MDG\)](#).

Long Tax Numbers

You can now enter tax numbers with a length of up to 60 characters. This feature has now been made available for [SAP Master Data Governance 7.0](#) and higher.

Assignment of Business Partners to Hierarchies from Single-Object Processing UI

You can now assign Business Partners to hierarchies during the creation or change process. The UI also offers a value help for an easy identification of the relevant parent node.

Highlight Deletions

As an enhancement of the *Highlight Changes* feature, the *Highlight Deletions* feature is now available. It enables you to highlight deleted values, including deleted rows, that are shown in lists, and to restore the latest active version of the deleted record. The system highlights the relevant rows and displays deleted values as strikethrough, supporting you in quickly identifying items marked for deletion when checking change requests, and offering a new, easy way to restore data. This feature was made available with *SAP Master Data Governance 8.0 SP02*.

Data Replication

Value mapping configuration is now available for all relevant fields. All relevant value mapping fields are assigned to a customizable value table. Field lists in the SAP Community Network at scn.sap.com/  provide information about the assigned value mapping.

Note

For more information about the above-mentioned field lists, see *Metadata About the Data Models* (www.sdn.sap.com/irj/scn/index?rid=%2Flibrary%2Fuuid%2F00e8f5e4-0c00-3010-58a8-917b3e07b426 ).

Further Links

The following table lists further useful links in the SAP Community Network (SCN).

Table 5

Content	Location on SCN
SAP Master Data Governance Community	scn.sap.com/community/mdm/master-data-governance 
Configuration and Enhancement of SAP Master Data Governance	scn.sap.com/docs/DOC-7858 
Customer/Supplier/Business Partner Data	scn.sap.com/docs/DOC-70744 

Replication of supplier contact persons using ALE is now possible. As a prerequisite, EhP7 SP5 needs to be installed.

Change Request Types for SAP Fiori

This business function provides the BC set CA-MDG-APP-BP_CR_ODATA_05 that is required to use SAP Fiori.

2.1.2.5 Master Data Governance for Business Partner (MDG-BP)

With MDG 7.0 SAP offers the application *Master Data Governance for Business Partner* with the following features:

- **Central work center**
- **Business partner categories**

Three *business partner categories* with category-specific attributes are supported:

- Organization

- Person
- Group
- **Extensibility of data model**

The *extensibility of the data model* allows you to configure the governance process for additional business partner attributes and customer fields. In this way all important business partner attributes can be put under governance without custom development or modifications.
- **Governance scope: Deactivate entity types and fields**

The governance scope enables you to put only parts of the data model under governance.
- **Import master data**

The *import master data function* enables you to upload business partner master data from an XML file into an SAP hub system (ERP system or industry-specific system).
- **Search**

The search offers you the following features:

 - Precise match search based on database queries
 - Error-tolerant search using SAP Data Services or partner solutions based on the business address services (BAS) interface (solution not included in MDG)
 - Fuzzy search using TREX
 - Error-tolerant high performance search using SAP HANA with a hit list ranked by relevance
- **Data cleansing and merging**

Potential duplicates can be found using the *search* or the *duplicate check*. If similar master data records are considered to be duplicates, a cleansing case can be created. A master data specialist can then investigate whether these business partner data records are duplicates and if so, merge the best data of all records into one single master data record.
- **Data quality services**

The *data quality services* offer features like name and address verification, data enrichment, a basic version check, and a duplication check. All these features are integrated into the course of the process but can also be triggered at any point in time.
- **Automated distribution**

The *automated distribution* of changes in business partner master data enables you to distribute sets of data changes to several systems using ALE and enterprise services. Point-to-point distribution is supported without installation of the SAP NetWeaver Process Integration (SAP NetWeaver PI) or other middleware solutions.
- **IBAN without BIC**

MDG-BP fulfills the legal requirement of the *Single Euro Payments Area* (SEPA) to only maintain the *International Bank Account Number* (IBAN) for SEPA countries. The maintenance and generation of bank details (*Business Identifier Code* (BIC)) is not required anymore.

With MDG 8.0 the application Master Data Governance for Business Partner offers the following features:

- **MDG, Business Partner: Address Screening**

The *address screening* is based on the integration of *SAP Fraud Management*. It enables authorized users in change request processing in *SAP MDG, central governance* to perform the screening of a person or organization by *SAP Fraud Management*.

To use the *address screening* feature *SAP Fraud Management 1.1 SP07* or higher has to be installed and the *address screening* features of *SAP Fraud Management* have to be enabled. For information on *SAP Fraud*

[Management](#) in general and on how to install and upgrade it, see the SAP Help Portal under help.sap.com/fra .

- **Create Business Partner with Reference**

This feature allows you to create a business partner with reference to an existing record.

Within the hit list of an application you can select any record and choose [Copy](#). This will create a new record reusing a predefined selection of the existing data.

The feature has been downported to [Master Data Governance 7.0 SP03](#). For details and a possible pre-implementation, see SAP Note [2020896](#) .

With MDG 9.0 the application Master Data Governance for Business Partner offers the following features:

Time-Dependent Business Partner Relationships

You can now maintain validity dates for Business Partner relationships. You can define time restrictions and the cardinality for each relationship type.

Note

For more information, see SAP Note [2249877](#) .

International Address Versions of Contact Persons' Workplace Addresses

You can now enter several versions of a contact person's workplace address in different character sets, e.g. Chinese or Cyrillic. This function has already been available for organizations and persons, and is now also available for workplace addresses. Additional fields are visible on the Fiori Lean Request UI of the SAP Fiori App [Request Business Partner \(MDG\)](#).

Long Tax Numbers

You can now enter tax numbers with a length of up to 60 characters. This feature has now been made available for [SAP Master Data Governance 7.0](#) and higher.

Assignment of Business Partners to Hierarchies from Single-Object Processing UI

You can now assign Business Partners to hierarchies during the creation or change process. The UI also offers a value help for an easy identification of the relevant parent node.

Highlight Deletions

As an enhancement of the [Highlight Changes](#) feature, the [Highlight Deletions](#) feature is now available. It enables you to highlight deleted values, including deleted rows, that are shown in lists, and to restore the latest active version of the deleted record. The system highlights the relevant rows and displays deleted values as strikethrough, supporting you in quickly identifying items marked for deletion when checking change requests, and offering a new, easy way to restore data. This feature was made available with [SAP Master Data Governance 8.0 SP02](#).

Data Replication

Value mapping configuration is now available for all relevant fields. All relevant value mapping fields are assigned to a customizable value table. Field lists in the SAP Community Network at scn.sap.com/  provide information about the assigned value mapping.

Note

For more information about the above-mentioned field lists, see *Metadata About the Data Models* (www.sdn.sap.com/irj/scn/index?rid=%2Flibrary%2Fuuid%2F00e8f5e4-0c00-3010-58a8-917b3e07b426).

Further Links

The following table lists further useful links in the SAP Community Network (SCN).

Table 6

Content	Location on SCN
SAP Master Data Governance Community	scn.sap.com/community/mdm/master-data-governance 
Configuration and Enhancement of SAP Master Data Governance	scn.sap.com/docs/DOC-7858 
Customer/Supplier/Business Partner Data	scn.sap.com/docs/DOC-70744 

Change Request Types for SAP Fiori

This business function provides the BC set CA-MDG-APP-BP_CR_ODATA_05 that is required to use SAP Fiori.

2.1.2.6 Master Data Governance for Custom Objects (MDG-CO)

With Master Data Governance for Custom Objects you can set up governance processes for your specific master data objects.

- **Data Modeling**

In a data model, you can define entity types with multiple key fields without the need to create additional leading or qualifying relationships. You also can define multiple relationships between a check table and a different entity type, as well as multiple relationships between the same entity types. You can edit data models in a configuration workbench. EhP6 includes an example for Master Data Governance of Custom Objects. You can use this example to become familiar with some of the possibilities of SAP Master Data Governance with its functions and configuration options. With Custom Objects in the Customer-Specific Reuse Active Area you can now specify that the system should store custom objects, which you define yourself, in existing tables.

- **Process Enhancement and Configuration**

With EhP6, features are available which increase the flexibility of MDG processes. In the *Business Activity* section the standard links between Actions, Business Activities, and User Interfaces can be replaced by customer specific definitions. In the *Change Request* section the user can use the *Configure Properties of Change Request Step* activity to:

- Enrich parts of data, by assigning an enrichment spot
- Ensure validations occur by assigning checks
- Specify which fields are relevant, and which relevant fields are required, by setting field properties
- Assign a different Web Dynpro application to the standard one configured for the data model

In the **Workflow** section it is now possible to define change request step types and actions which can be used to enhance the change request process with customer specific processes.

- **Data Exchange**

Data Exchange now covers Data Replication (process-driven, usually message-based replication of data from the MDG Hub to the Clients) and Data Transfer (mass transfer, usually file-based export and import).

Data Replication has been enhanced with the *Replication by Object Selection*. This can be used to quickly replicate business object data from an MDG hub to target systems. Users typically use this application to respond to one-off requests for the replication of specific business objects. Possible tasks include the following:

- searching for business objects you want to replicate before including them in a replication
- specifying the ID of business objects you want to replicate
- replicating all business objects with specified relationships.

Data Transfer Usability has been improved and it is now possible to process large numbers of objects from the Web User Interface in the Enterprise Portal. Additional interfaces have been created for the data import, export, and conversion applications. You can now also use parallel processing and scheduling from the import and export applications. Additionally an application to monitor the results of data import and export runs has been delivered.

- **Analytics**

You can analyze change requests in an organization according to processing time, or status. You can also filter for change requests in which you are involved, accessing information on your specific involvement in such change requests, for example as creator or processor.

You can define a Service Level Agreement (SLA) for change requests with a particular change request type and priority. This SLA acts as a Key Performance Indicator (KPI) against which you can measure the processing time of change requests

- **Process Enhancement and Configuration**

SAP delivers a comprehensive set of fields with the data models for each MDG application. You can determine how much data to include in the governance process, based on your business needs. You can complete this task in Customizing for Master Data Governance under Process Modeling -> Define Governance Scope. This task involves deciding which fields in the data model for your MDG application can be changed using change requests.

- **Block List**

With the block list function you can provide block values that are used from the application framework to perform checks and to persist block values. Block values prevent adding an entity type to an object list of another change request.

i Note

The block list function can be used in the reuse active area only. It cannot be used for entity types without reuse active area, since the block list function can be used only with an application specific access class.

- **Data Quality Remediation**

With the data quality remediation function you can integrate customer-specific analytical providers to enable business users to identify master data of low quality and start a governance process in MDG to improve the data quality using the following capabilities:

- Workflows sending change requests to persons involved
- A web-service to retrieve failed-record keys from a customer-specific analytical provider in a Web Dynpro application

- **Parallel Change Requests**

Parallel change requests allow multiple users to concurrently request, process, and approve changes to the same business object.

i Note

Parallel change requests cannot be used with editions.

- **Enhanced Edition Management**

You can use the enhanced edition management to improve the flexibility in how you manage editions and schedule changes to edition-based business objects.

i Note

Editions cannot be used with parallel change requests.

- **Multiple-Record Processing**

Multiple-record processing enables the processing of several master data records in a common environment. This function offers various possibilities for UIs that provide the option to individually process fields or use find-and-replace-options.

- **SAP HANA-Based Search**

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, leveraging features of SAP HANA like error-tolerant search and ranking of the results by relevancy.

Drill-down search can be configured for generated search views. It enables you to search information by starting with a general category and moving through the hierarchy of fields to the desired records.

- **Highlight Changes**

The system highlights changes of a business object on the UI in the change request process. This helps you to find a particular change on the change request UI telling you what you need to check and approve.

- **Undo Changes**

The MDG system collects all your actions between two client/server roundtrips in MDG Web Dynpro applications in one step that can be undone. You can undo all actions of this step using [Undo](#). You can undo all steps carried out since the last save. After you have used [Undo](#), you can use [Redo](#) to recover your actions.

- **Central Point of Access for all UI Configurations in SAP Master Data Governance**

You can model all UIs using an improved Customizing activity that logically groups the relevant technical objects.

Enhanced and Simplified Hierarchy Management

- **Improved Process for the Assignment of Master Data**

- Assignment of master data objects to hierarchies in the Single Object Processing UI
- Intuitive access to hierarchies from the search and improved switching between hierarchies
- Integrated creation of change requests in the Hierarchy Processing UI
- Control over the scope for changes, which determines how many levels of the hierarchy are available for processing in separate change requests

- **Faster Approval of Hierarchy Changes**

- Display of pending change requests in the Hierarchy Processing UI
- Easy access to and intuitive display of change documents

- **Enhanced Processing of Multiple Changes**
 - Multiple nodes can be restructured or deleted at the same time
 - Insertion of flat lists of subnodes from a file in the Hierarchy Processing UI
 - A user-customizable number of subnodes is displayed when a node is expanded

Generic Datasources for Analytical Scenarios

- Support for analytical reporting by a simplified generation of model-specific Datasources for master data and by the provision of the Datasource for key mapping

Automatic Creation of Change Requests for File Upload and Mass Change

- Enhanced efficiency through automatic creation of change requests in file upload and mass change processes
- **Enhanced Configuration for Change Request Actions**
You can specify whether a successful check is necessary for an action to be completed, and if the user is required to enter a Note.
- **Enhanced Change-Request based Navigation**
You can allow the target UI to be determined based on the target *UI Application* and *UI Configuration* information for the change request type.
- **Improved Usability of Collective/Hierarchy Processing**
Enhanced value help for Business Partner ID. You can now select business partners by *Address* data.
- **Enable Pooled or Direct Replication for all Business Objects**
You can decide if you want to enable direct replication or pooled replication for each combination of business object and target system.
- **Hierarchy Processing UI: Performance Improvement for Find Function and Enablement of Free Text Search**
The performance for the *Find* function has been improved. The search of object attributes, such as ID and description, as well as the free text search of hierarchy attributes has been enabled.
For more information, see SAP note [2191381](#) .
- **Enablement for Zero Downtime Options (ZDO)**
MDG is enabled for ZDO. For more information, see SAP note [2163060](#)  including the document that is attached to this SAP note.

2.1.2.6.1 Flight Data Model

You can use the flight data model to quickly explore the main capabilities of SAP Master Data Governance.

For more information about the flight data model, see SAP Solution Manager for *Master Data Governance for Custom Objects: Example Scenario Configuration Description* under ► *Organizational Area* ► *Corporate Support and Services* ► *Business Processes* ► *Master Data Governance for Custom Objects* .

2.2 Data Cleansing and Merging: Updating the Status of the Cleansing Case

You can use data cleansing and merging for the following MDG applications:

- Master Data Governance for Supplier
- Master Data Governance for Customer
- Master Data Governance for Business Partner

Event Type Linkage

SAP has provided event type linkages in the Customizing activity *Activate Type Linkage* under ► *Master Data Governance* ► *General Settings* ► *Process Modeling* ► *Workflow* to update the status of the cleansing case after the corresponding change request has been approved or rejected.

To update the status of the cleansing case you need to do the following:

- SAP has provided two entries BUS2250-ACTIVATED and BUS2250-ROLLED_BACK for these two events which you both need to activate.
- Select the details of the corresponding entries and set the flag for the field *Linkage Activated*.
- This customizing entry cannot be transported from one system to another. Therefore, you need to set the flag in each system, when the status of the cleansing case shall be updated after the change request has been approved or rejected.

Since there are two status fields in the cleansing application, one for the change request and one for the case details, you need to check the following:

- The event type linkages have to be activated.
- After the change request has been completed, its status has to be set to *Final Check Approved*.
- The activated event type linkage has to update the status of cleansing case to *Completed*.

2.3 Address Screening

The integration of *SAP Fraud Management* enables authorized users in change request processing in *SAP MDG, central governance* to perform the screening of a person or organization by *SAP Fraud Management*.

Prerequisites

- The integration of *SAP Fraud Management* is an optional feature in *SAP MDG, central governance*. To make use of it *SAP Fraud Management 1.1 SP07* or higher has to be installed.
- The address screening features of *SAP Fraud Management* have to be enabled as described in the installation and upgrade guides on the *SAP Help Portal* under help.sap.com/fraud in the section *Enabling Address Screening Methods*.
- Users of the address screening feature in the *SAP Fraud Management* system need to be assigned to the role *SAP_BPCM_SYS_COM Business Partner Master Data Screening: System Communication*.
 - You can assign this role to a service user that is specified in the definition of the RFC destination.
 - You can set up the RFC destination to require MDG users to log on to *SAP Fraud Management* as named users assigned to this role.

- You have set up an RFC destination of the Connection Type 3 (ABAP Connection) in transaction SM59.
You can install *SAP Fraud Management* in the same SAP NetWeaver system as MDG, central governance. Nevertheless the RFC destination is required, in order to log on to the client in which SAP Fraud Management is running.
- In the Customizing activity under ► *Master Data Governance, Central Governance* ► *General Settings* ► *Data Quality and Search* ► *Validations and Enrichments* ► *Define Enrichment Spots* ► the entry ADDRESS_SCREENING is available.

i Note

The ACCESS_GROUP authorization check for fraud alerts in *SAP Fraud Management* is supported for MDG, business partner master data screening. If a change request from MDG specifies a value for ACCESS_GROUP, then this value is attached to any alerts created by the change request. Subsequent calls from MDG to change the status of the alert are checked against this value.

If you plan to use access groups to limit the set of alerts to which an MDG approver has access, then you should use the named-user approach to setting up the RFC communications. In this case, your named-users for approvers can have the access group authorizations that each approver requires. An authorization error is returned to MDG as an RFC error with accompanying message.

Integration

- To activate the address screening for *SAP MDG, central governance*, run the Customizing activity under ► *Master Data Governance, Central Governance* ► *General Settings* ► *Process Modeling* ► *Change Requests* ► *Configure Properties of Change Request Step* ►
 1. Select the change request type and choose *Change Request Step*.
 2. Select a change request step and choose *Enhancements and Checks per Change Request Step*.
 3. Set the *Relevant* indicator for the entry *Address Screening*.
- In the client **000** in the Customizing activity under ► *Master Data Governance, Central Governance* ► *General Settings* ► *Process Modeling* ► *Workflow* ► *Activate Event Type Linkage* ► the receiver types ACTIVATED_ACS and ROLLED_BACK_ACS are available. These receiver types have to be taken on the corresponding client and the *Type Linkage* indicator has to be set.
- To specify an RFC destination for the address screening run the Customizing activity under ► *Master Data Governance, Central Governance* ► *Master Data Governance for Business Partner* ► *Address Screening* ► *Specify RFC Destination for Address Screening* ►
Use the entry help to select an RFC destination and save your settings.

More Information

For information on *SAP Fraud Management* in general and on how to install and upgrade it, see the *SAP Help Portal* under help.sap.com/fra .

2.4 Combined Usage of SAP Master Data Governance Applications with SAP Industry Solutions

You can use Master Data Governance for Financials (MDGF) and Master Data Governance for Custom Objects (MDGCO) together with all industry solutions.

You must not use Master Data Governance for Material (MDGM), Master Data Governance for Supplier (MDGS), Master Data Governance for Customer (MDGC), and Master Data Governance for Business Partner (MDGBP) with SAP industry solutions on the same system (co-deployment) apart from the exceptions mentioned in SAP note [1690202](#) .

2.5 Upgrade Paths

2.5.1 Upgrading MDG to MDG 9.0

- You can upgrade the following MDG applications from the SAP ERP enhancement packages EHP5, EHP6, EHP7, and EHP08, as well as MDG 6.1, MDG 7.0, and MDG 8.0 to MDG 9.0:
 - Master Data Governance for Financials
 - Master Data Governance for Material
 - Master Data Governance for Supplier
- Additionally, you can upgrade Master Data Governance for Custom Objects and Master Data Governance for Customer from EHP6, EHP7, EHP8, MDG 6.1, MDG 7.0, MDG 8.0 to MDG 9.0.
- You can also upgrade the following MDG, Consolidation applications from the SAP ERP enhancement package EHP08, as well as from MDG 8.0 to MDG 9.0:
 - Master Data Governance for Customer, Consolidation
 - Master Data Governance for Supplier, Consolidation

Note

You must not execute a process step in MDG, Consolidation during the upgrade. Every process step that has been started before the upgrade needs to be completed before the upgrade.

Nevertheless, the overall MDG, Consolidation process does not need to be finalized before the upgrade.

Caution

Because of corrections from SAP it is possible that the active version and the inactive version of the same data model may differ.

Therefore, activate all those data models after upgrading to MDG 9.0 that have the entry *Different* in the column *Active Version* of the Customizing activity *Edit Data Model* under ► *Master Data Governance* ► *General Settings* ► *Data Modeling* ► regardless of MDG 9.0 business function switches being switched on or off.

Check if the generated data model-specific structures are complete regarding the attributes of the entities in the Customizing activity *Generate Data Model-Specific Structures* under ► *Master Data Governance* ► *General Settings* ► *Data Modeling* ► after you have activated the data model. If you made own extensions of the data model you need to check if these structures comprise your own entities and attributes.

Caution

If you are using MDG for Financials or MDG for Custom Objects with Editions and you are planning an upgrade from SAP Master Data Governance 6.1, SAP ERP 6.0 Enhancement Package 7 respectively, or a lower release to SAP Master Data Governance 7.0, SAP ERP 6.0 Enhancement Package 8 respectively, or a higher release, please follow the instructions in the Release Information Note [2291824](#) before the upgrade.

Activate all relevant services to be activated for Web Dynpro applications after having upgraded to MDG 9.0. For more information, see *Services to be Activated for Web Dynpro Applications* at [help.sap.com/](#) under ► *SAP Business Suite* ► *SAP ERP Add-Ons* ► *SAP Master Data Governance* ► *Configuration of Master Data Governance* ► *Configuration of SAP MDG, Central Governance* ► *Configuring Master Data Governance for Custom Objects* ►.

Note

You should not import the latest support package stack in the start release before the upgrade to ensure that the required, equivalent support package is already available in the target release. For more information, see the SAP Notes [2143725](#) and [70228](#).

More Information

For information on the upgrade path to the SAP ERP enhancement package EHP8, see the upgrade section of the Master Guides for EHP8. The Master Guide for EHP8 is available at [service.sap.com/erp-ehp8-inst](#).

2.6 Upgrade of Software Components

2.6.1 Generic Information Regarding Upgrades to MDG 9.0

In Master Data Governance 9.0, we updated the following MDG software components.

Back-End Software Components

Table 7

Software Component	Software Component Description	Version
MDG_FND	MDG Foundation	750
MDG_APPL	MDG Applications	620
MDG_UX	MDG Additional User Interface	620
MDG_MDC	MDG, Consolidation	200

Front-End Software Components

Table 8

Software Component	Software Component Description	Version
UIMDG001	User Interface for MDG, Central Governance Fiori Apps	200

UIMDC001	User Interface for MDG, Consolidation and Mass Processing Fiori Apps	200
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2.6.1.1 Save Drafts

Drafts are created when a user saves a change request without starting the workflow. In EhP5 drafts were only visible for the creator. In EhP6, drafts are also visible to colleagues with the appropriate authorization.

Drafts that you have created in EhP5 will be lost when you upgrade to EhP6. Therefore you should finalize all open EhP5 drafts before activating EhP6. MDG offers the report `USMD_GOV_API_DRAFT_DELETE`. You can run this prior to upgrading to create a list of all open EhP5 drafts.

In EhP6 you can save one draft per change request. Drafts are stored in change request database tables. All dependent objects are locked until the change request is approved.

2.6.1.2 Enhanced Data Models in MDG-M, MDG-S, and MDG-C: Unlocking Change Requests and Adapting Change Request Data

With EhP6, the data models `MM` in Master Data Governance for Material (MDGM) and `BP` in Master Data Governance for Supplier (MDGS) have been enhanced. With MDG 6.1, the data model `BP` in Master Data Governance for Customer (MDGC) has been enhanced also. Activating the MDG 7.0 business functions and switches for MDGM, MDGS, and MDGC, the data models `MM` and `BP` are changed and all open change requests of the two applications are locked. To unlock these change requests and to adapt the change request data to the enhanced data models you should run the report `USMD_ADJUST_STAGING`. This report runs in all clients where MDG is active and is available in Customizing for Master Data Governance under [General Settings > Data Modeling > Edit Data Model](#).

2.6.1.3 Set and Delete the Context in the Change Request Process

If you had created your own program with the class `CL_USMD_CR_API` in EHP5, you need to set the context with the class `CL_USMD_API_CONTEXT` to continue to use your own program in EHP6.

As soon as the change request ID in your MDG application is fixed, you need to initialize the context with the method `INIT_CONTEXT`. When you have finalized the processing of the change request, you need to delete the context with the method `DISCARD_CONTEXT`. After this you need to initialize the context again in order to process another change request in your MDG application.

For more information, see the documentation of the class `CL_USMD_API_CONTEXT` and the interface `IF_USMD_API_CONTEXT`.

2.6.1.4 Access Class CL_MDG_BS_ECC_ACCESS

As of SAP enhancement package 6 for SAP ERP 6.0 (SAP_APPL 606) the access class CL_MDG_BS_ECC_ACCESS is required for Master Data Governance for Supplier. If you activate the business function *Master Data Governance for Supplier on Hub (ERP)* (MDG_ERP_SUPPLIER_2), the switch BC set CA-MDG-APP-BP_V_MDG_BS_BP_ACC_01 provides the access class CL_MDG_BS_ECC_ACCESS. No further action is required in this regard.

However it is possible to upgrade from EhP5 to EhP6 without activating the business function *Master Data Governance for Supplier on Hub (ERP)*. If you do not activate the business function *Master Data Governance for Supplier on Hub (ERP)*, you have to activate the switch BC set CA-MDG-APP-BP_V_MDG_BS_BP_ACC_V manually again. This switch BC set has been adapted and will provide the access class CL_MDG_BS_ECC_ACCESS.

For more information, see release note MDG_606_SUP_ACC_CLAS.

2.6.1.5 Block List

If you have created your own data model using the reuse active area before MDG 6.1, you need to finalize all your change requests to ensure a correct processing of the block list function.

Entities belonging to an object list of a change request that has been created in EHP 6 and that is still in process after the upgrade to MDG 6.1 can lead to inconsistencies when using the block list function. The block list function has no impact, if a change request that has been created after the upgrade to MDG 6.1 provides a block value for an entity that is also part of the object list of another change request that has been created before that upgrade.

2.6.1.6 Enhanced Edition Management

With MDG 7.0 SAP delivers an enhanced edition management adding flexible scheduling capabilities. When upgrading to MDG 7.0, you need to consider the following:

- **User Interfaces**

To use the capabilities delivered with MDG 7.0, the following user interfaces have been delivered:

- Single-Object Processing for MDG for Financials (MDGF_OVP_GEN)

The WebDynpro application MDGF_OVP_GEN is a prerequisite for MDG for Financials 7.0. If you have enhanced the WebDynpro application USMD_ENTITY_VALUE2 on a release lower than MDG 7.0 you need to adapt the WebDynpro application MDGF_OVP_GEN accordingly.

- Generic Single-Object Processing (USMD_OVP_GEN) and Generic Search (USMD_SEARCH)

The WebDynpro applications USMD_OVP_GEN and USMD_SEARCH are a prerequisite for applications that use the capabilities of the flexible edition management delivered with MDG 7.0. If you have enhanced the WebDynpro application USMD_ENTITY_VALUE2 on a release lower than MDG 7.0 you need to adapt the WebDynpro application USMD_OVP_GEN accordingly.

- **After-Switch Method**

When switching on enhanced edition management an after-switch method to convert data is executed automatically. This converts all edition-based business objects – Financials objects and custom objects. During this process no functions of MDG can be used for edition-dependent data models including custom data models.

Using transaction SLG1 (Analyse Application Log) you can analyze the activities entering the object *FMDM* and the subobject *UPGRADE_EDITION*.

- **Implementation for Custom Objects without Financials**

Business function *Master Data Governance for Financials 7.0* (MDG_FINANCIALS_4) activates switch *Edition Management* (MDG_EDITIONS), which enables enhanced edition management. To use editions for custom objects in cases where you are not using financial objects, create and switch on a business function that includes switch *Edition Management* (MDG_EDITIONS). For more information about the switch framework and how to create business functions, run transaction *SEW5* and choose ► *Help* ► *Application Help* ▾. Take into account the effects of the after-switch method.

Constraints



Caution

If you are using data slices, you need to contact SAP. Data slices cannot be used with the enhanced edition management delivered with MDG 7.0.

2.6.1.7 Authorization Object USMD_DM

Before upgrading from ERP EHP5 to a higher release of MDG, you must create the authorization object *USMD_DM* to be able to activate data models, because this authorization object is not yet available in ERP EHP5. The authorization object needs to be assigned to the upgrade user.

For more information, see SAP note [2008595](#) 📄.

2.6.1.8 Interlocking Hierarchy Nodes

If you want to use loose interlocking for hierarchy nodes make sure that you have released all change requests before upgrading to MDG 9.0.

2.6.1.9 Zero Downtime Options (ZDO)

If you want to upgrade to MDG 9.0 and you want to use ZDO, consider the information provided in the SAP note [2163060](#) 📄 including the document that is attached to this SAP note.

2.6.1.10 Zero Downtime Option – Restrictions in Bridge Phase

The following restrictions apply for the use of Master Data Governance together with a HANA database in the Bridge phase during the upgrade process:

- **MDG, Central Governance**

HANA Search and Drill-Down Search is not working. After you have implemented SAP note [2339248](#), the system provides a system message on the current state of the system and provides a reason why the HANA Search and Drill-Down Search cannot be executed.

- **Master Data Governance for Material**

After you have implemented SAP note [2338571](#), you can start the MDG material applications.

The HANA search provider is not working. For more information, see SAP note [2339248](#).

- **MDG, HANA-Based Analytics**

Configuration and generation is not working.

After you have implemented SAP note [2338627](#) the system provides a system message on the current state of the system and provides a reason why the generation needs to be stopped.

- **MDG, Consolidation**

Exception Information Despite Correct Process Results

The system provides exception entries in the application log with the information that a database table does not exist, although the database table does exist and the process results are correct. The system sets the status of the current step to *Failed* due to these exceptions. After you have implemented SAP note [2334454](#), the system sets the correct status of the current step.

Standardization and Matching Using HANA Smart Data Quality and HANA Fuzzy Search

- Standardization with HANA SDQ is not working.
- Matching with HANA SDQ is not working.
- Matching with HANA Fuzzy Search is not working.

After you have implemented SAP note [2336925](#), the system provides a system message on the current state of the system. After the bridge phase has finished, the step can be rolled back and processed again.

2.6.2 Application-Specific Information Regarding Upgrades to MDG 9.0

2.6.2.1 MDG, Consolidation and Mass Processing

2.6.2.1.1 Activity Confirm of Authorization Object MDC_PROOT

After having upgraded to MDG, Consolidation and Mass Processing 9.0, process steps on the process overview UI cannot be executed. To change this, you need to assign to your users the activity *Confirm* of the authorization object MDC_PROOT delivered with MDG, Consolidation and Mass Processing 9.0.

For more information on the authorization object `MDC_PROOT`, see the authorization object chapter *MDC_PROOT* in the MDG 9.0 Security Guide.

2.6.2.2 MDG, Central Governance

2.6.2.2.1 Master Data Governance for Material

With EhP6, the Business Add-In previously available to adjust the user interface for single processing of material is no longer available. Instead, a new UI provides greater flexibility while retaining and refining the functionality provided with EhP5. Below is the full list of the functions previously available through the single processing UI by implementing the BAdI in EhP5, that are now provided under the EhP6 UI paradigm:

- Initialize the displayed data (when creating a new entity, for example)
- Restrict the values displayed in a dropdown list field or selection field group
- Restrict the values displayed in the input help
- Dynamically control the visibility of fields on the user interface and of the property that determines if fields are required or display-only
- Define navigation destinations of UI elements of the type hyperlink (or button)
- Check if the lead selection of a table may be changed

For more information, see SAP Note [1606341](#) .

2.6.2.2.1.1 Material Roles for Menu Structure and Authorizations

SAP delivers roles for the menu structure and for authorizations.

The following role for the menu structure is available for Master Data Governance for Material:

With ERP 6.0 EHP6, the following roles are available:

- `SAP_MDGM_MENU`, Master Data Governance for Material: Menu

You need the role `SAP_MDGM_MENU` in order to use the new menu entries and the new UI.

The following roles for authorizations of users are available for Master Data Governance for Material:

- `SAP_MDGM_DISP`, Master Data Governance for Material: Display
- `SAP_MDGM_REQ`, Master Data Governance for Material: Requester
- `SAP_MDGM_SPEC`, Master Data Governance for Material: Specialist
- `SAP_MDGM_STEW`, Master Data Governance for Material: Data Steward

With MDG 6.1, the following roles are available:

- `SAP_MDGM_MENU_03`, Master Data Governance for Material: Menu
- `SAP_MDGM_DISP_03`, Master Data Governance for Material: Display
- `SAP_MDGM_REQ_03`, Master Data Governance for Material: Requester
- `SAP_MDGM_SPEC_03`, Master Data Governance for Material: Specialist

- SAP_MDGM_STEW_03, Master Data Governance for Material: Data Steward

With MDG 7.0, the following roles are available:

- SAP_MDGM_MENU_04, Master Data Governance for Material: Menu
- SAP_MDGM_DISP_04, Master Data Governance for Material: Display
- SAP_MDGM_REQ_04, Master Data Governance for Material: Requester
- SAP_MDGM_SPEC_04, Master Data Governance for Material: Specialist
- SAP_MDGM_STEW_04, Master Data Governance for Material: Data Steward

With MDG 7.0 Feature Pack, the following roles are available:

- SAP_MDGM_MENU_05, Master Data Governance for Material: Menu
- SAP_MDGM_DISP_05, Master Data Governance for Material: Display
- SAP_MDGM_REQ_05, Master Data Governance for Material: Requester
- SAP_MDGM_SPEC_05, Master Data Governance for Material: Specialist
- SAP_MDGM_STEW_05, Master Data Governance for Material: Data Steward

With MDG 8.0, the following roles are available:

- SAP_MDGM_MENU_06, Master Data Governance for Material: Menu
- SAP_MDGM_DISP_06, Master Data Governance for Material: Display
- SAP_MDGM_REQ_06, Master Data Governance for Material: Requester
- SAP_MDGM_SPEC_06, Master Data Governance for Material: Specialist
- SAP_MDGM_STEW_06, Master Data Governance for Material: Data Steward

Note

We delivered no new roles for Master Data Governance for Material 9.0.

Integration

SAP recommends copying these roles and adapting them to your needs. Re-implement features you implemented using the UI BADl USMD_UI_EVENT2 in the SAP Enhancement Package 5 for SAP ERP 6.0. For more information, see chapter 2.4.2.1 in this document.

More Information

For more information on roles of Master Data Governance for Material, see the following:

- Configuration Information for Master Data Governance for Material
[Configuring Master Data Governance for Material](#) at help.sap.com  under  [Data Management](#)  [SAP Master Data Governance](#)  [SAP Master Data Governance 9.0](#)  [Configuration of Master Data Governance](#)  [Configuration of SAP MDG, Central Governance](#) 
- PFCG Roles
Enter one of the roles mentioned above in transaction PFCG and choose [Role documentation](#).
- Portal Roles

help.sap.com under ► *Enterprise Management* ► *SAP ERP* ► *SAP Enhancement Package 8 for SAP ERP 6.0* ► *SAP ERP Cross-Application Functions* ► *Roles* ► *Roles in SAP NetWeaver Portal* ► *Business Packages* ► *Business Package for Material Governance* ►

2.6.2.2.1.2 Delivered Customizing

As of SAP Enhancement Package 6 for SAP ERP 6.0 (EhP6), SAP delivers new step types. Now you can use Customizing to create your own step types with two or more associated actions. The pre-delivered content for the change request types MAT01, MAT02, MAT06, MAT0A, MAT0B in the Customizing activity *Configure Rule-Based Workflow* has been updated to include the new step types, actions, and statuses. If you import this new content from client 000, the old values are overwritten.

If you want to keep the old content, do not import the files.

For more information, see *Configuring Master Data Governance for Material* at help.sap.com under ► *Data Management* ► *SAP Master Data Governance* ► *SAP Master Data Governance 9.0* ► *Configuration of Master Data Governance* ► *Configuration of SAP MDG, Central Governance* ►

2.6.2.2.1.3 Setting up Search

The Enterprise search templates for MATERIAL and MDG_MATERIAL are different between EHP05 and EHP06. The change becomes active as soon as you install SAP Enhancement Package 6 for SAP ERP 6.0 (EhP6) or higher releases of MDG. This happens before you activate any business functions. You have to create a new software component and link the software components EA_APPL/PLMWUI and MDG_APPL to it.

For more information, see *Configuring Master Data Governance for Material* at help.sap.com under ► *Data Management* ► *SAP Master Data Governance* ► *SAP Master Data Governance 9.0* ► *Configuration of Master Data Governance* ► *Configuration of SAP MDG, Central Governance* ►

2.6.2.2.1.4 Search Extensibility

If you have extended the enterprise search for Master Data Governance for Material with customer (Z) fields in SAP Enhancement Package 5 for SAP ERP 6.0, consider adapting your implementation according to the revised SAP Enhancement Package 6 for SAP ERP 6.0 or higher extensibility guidelines.

The advantages are the following:

- No own BAdI implementation necessary for BAdI BADI_SDQ_PP_SEARCH. You can revert to the standard implementation MDG_BS_MAT_PP_SEARCH.
- No additional search specific SMT mapping needed
- No manual extension of DDIC structures

2.6.2.2.1.5 Enhancements to Data Model MM

As of *SAP Master Data Governance 6.1* SAP delivers an enhanced data model MM.

Check, if your extension of the data model MM delivered with SAP ERP EHP5 or SAP ERP EHP6 is covered with the enhanced data model MM delivered with SAP Master Data Governance 6.1 or higher releases of MDG. To convert your extension of the data model MM delivered with SAP ERP EHP5 or SAP ERP EHP6 to the enhanced data model MM delivered with SAP Master Data Governance 6.1 or higher releases of MDG you need to do the following:

- You need to ensure that the necessary content of the enhanced data model MM delivered with SAP Master Data Governance 6.1 or higher releases of MDG is activated in Customizing for Master Data Governance under ► *General Settings* ► *Process Modeling* ► *Define Governance Scope* ►.
- SAP recommends to keep your extension of the data model MM and set them to the status not governed in the Customizing activity *Define Governance Scope*.
 - If you delete your extension of the data model MM, the MDG change documents for these fields get lost.

i Note

- Change documents for the back-end tables *Change Documents for Active Area* and *Change Documents for Activation* are now mapped to the enhanced data model MM delivered with SAP Master Data Governance 6.1 or higher releases of MDG.
- The MDG change documents for your extension of the data model MM delivered with SAP ERP EHP5 or SAP ERP EHP6 can still be accessed with the entity names and attribute names of your model extension. They cannot be accessed with the names of the SAP model content.

Example: The entity ZZMARC is replaced by entity MARCBASIC. Then the MDG change documents for ZZMARC will be labeled as ZZMARC even after conversion and the backend change documents will be shown for MARCBASIC.

- SAP also recommends to keep the *Service Mapping Tool* (SMT) extension of your data model extension for the same reason.

Convert the data model MM as follows:

1. Do not create change requests anymore.
2. Finalize all existing change requests.
3. Switch on business function MDG_MATERIAL_3 or higher business functions of MDG-M.
4. Reduce the governance scope to your extended fields of the data model MM delivered with SAP ERP EHP5 or SAP ERP EHP6 and ensure to govern their counterparts from the enhanced data model MM delivered with SAP Master Data Governance 6.1 and higher releases of MDG.

With SAP Master Data Governance 7.0 the Customizing activity *Import BC Set to Reset Governance Scope* changed

The Customizing activity turns into an organizational activity referring to the BC-set available as of Master Data Governance 7.0 which is different to MDG 6.1.

5. Create new BRF+ rules and new user-interface building blocks (UIBBs) for the UI configuration. Adapt the Business Add-In (BAI) implementation for USMD_RULE_SERVICE and USMD_RULE_SERVICE_CROSS_ET to the changed parameters.
6. Now you can start to create change requests again.

If you cannot finalize existing change requests before the conversion, the conversion process is the following:

1. Do not create change requests anymore.

2. Switch on business function MDG_MATERIAL_3 or higher business functions of MDG-M.
3. Reduce the governance scope to your extended fields of the data model MM delivered with SAP ERP EHP5 or SAP ERP EHP6 and ensure to govern their counterparts from the enhanced data model MM delivered with SAP Master data Governance 6.1 or higher releases of MDG.
4. Create new BRF+ rules and new UIBBs for the UI configuration. Adapt the BAdI implementation for USMD_RULE_SERVICE and USMD_RULE_SERVICE_CROSS_ET to the changed parameters.
5. Start a migration report for the active area and the staging area of the reuse entities to migrate your extended fields of the data model MM delivered with SAP ERP EHP5 or SAP ERP EHP6 to the enhanced data model MM delivered with SAP Master Data Governance 6.1 or higher releases of MDG. For details on how to write such a report, please check SAP note 1710311.
6. Now you can start to create change requests again.

i Note

If you have activated new business functions but you do not want to use the enhanced data model MM then you need to deploy the BC-Set MDGM_MDG_MATERIAL_VC_USMD007C_04 to reduce the content of the data model MM to the scope of the delivery of SAP ERP EHP6.

If you have extended the data model MM and the structure MDG_BS_MAT_S_MAT_DATA, you also need to extend the structure CMD_BS_MAT_S_MAT_DATA when you are upgrading to Master Data Governance for Material 9.0.

For more information, see the extensibility guide *Extend MDG-M Data Model by a New Entity Type (Reuse Option)* at scn.sap.com/docs/DOC-70743.

2.6.2.2.1.6 UI Configuration

i Note

We delivered no new UI configurations for Master Data Governance for Material 9.0.

To use the functions of the enhanced data model MM and the changes of the UI configuration delivered with SAP Master Data Governance 8.0, you need to process the following steps:

1. Exchange the Roles

Exchange your copies of roles to the roles of SAP Master Data Governance 8.0:

Table 9

Role	Description	Release
SAP_MDGM_DISP	Master Data Governance for Material: Display	SAP ERP EHP6
SAP_MDGM_DISP_06	Master Data Governance for Material: Display	SAP Master Data Governance 8.0
SAP_MDGM_MENU	Master Data Governance for Material: Menu	SAP ERP EHP6

Role	Description	Release
SAP_MDGM_MENU_06	Master Data Governance for Material: Menu	SAP Master Data Governance 8.0
SAP_MDGM_REQ	Master Data Governance for Material: Requester	SAP ERP EHP6
SAP_MDGM_REQ_06	Master Data Governance for Material: Requester	SAP Master Data Governance 8.0
SAP_MDGM_SPEC	Master Data Governance for Material: Specialist	SAP ERP EHP6
SAP_MDGM_SPEC_06	Master Data Governance for Material: Specialist	SAP Master Data Governance 8.0
SAP_MDGM_STEW	Master Data Governance for Material: Data Steward	SAP ERP EHP6
SAP_MDGM_STEW_06	Master Data Governance for Material: Data Steward	SAP Master Data Governance 8.0

2. Adapt the Data Model MM and its UI Configuration

If you have extended the data model MM delivered with SAP ERP EHP5 or SAP ERP EHP6, then the following use cases apply:

- **Usage of your extension of the data model MM delivered with SAP ERP EHP6 together with the UI configuration delivered with SAP ERP EHP6**

Use the BC-Set MDGM_MDG_MATERIAL_VC_USMD007C to reduce the governance scope to the level of SAP ERP EHP6 in Customizing for Master Data Governance under ► [Master Data Governance for Material](#) ► [Import BC Set to Reset Governance Scope](#) ► and use the roles delivered with SAP ERP EHP6.

- **Usage of your extension of your current data model MM together with the UI configuration delivered with SAP Master Data Governance 8.0**

In the Web Dynpro application MDG_BS_MAT_OVP, the application configuration is replaced by the application configurations BS_MAT_OVP_06 and BS_MAT_OVP_06H delivered with SAP Master Data Governance 8.0.

If you made extensions of copies of the application configuration, you need to implement the same extensions in the copies of the application configurations BS_MAT_OVP_06 and BS_MAT_OVP_06H. Some of the UIBBs delivered with SAP ERP EHP6 have been enhanced with SAP Master Data Governance 6.1 and higher releases of MDG-M. The technical names of these UIBBs have been enhanced with a suffix.

In case you have extended one of these UIBBs, for example the component configuration MDG_BS_MAT_MATERIAL_FORM delivered with SAP ERP EHP6, then you first need to copy the corresponding component configuration MDG_BS_MAT_MATERIAL_FORM_04 before you implement your extension again.

- **Usage of the data model MM delivered with SAP Master Data Governance 8.0 together with the UI configuration delivered with SAP Master Data Governance 8.0**

- **Completely switch to the entities and fields delivered as of SAP Master Data Governance 6.1 — no own extensions anymore**

Adapt the governance scope to your requirements. Implement a report and run this report to convert the existing change requests to the new data model as described in the chapter [Enhanced Data](#)

Model MM in this document. Then you have to copy your extensions to the enhanced entities and fields delivered as of SAP Master Data Governance 8.0. Exchange the roles as described above.

- **Partially switch to the entities and fields delivered as of SAP Master Data Governance 8.0 — some of your extensions remain**

Adapt the governance scope to your requirements. In the Web Dynpro application MDG_BS_MAT_OVP the current application configuration is replaced by the application configurations BS_MAT_OVP_06 and BS_MAT_OVP_06H delivered with SAP Master Data Governance 8.0.

If you made extensions of copies of the application configuration, you need to implement the same extensions in the copies of the application configurations BS_MAT_OVP_06 and BS_MAT_OVP_06H delivered with SAP Master Data Governance 8.0. Some of the UIBBs have been enhanced. The technical names of these UIBBs have been enhanced with a suffix.

In case you have extended one of these UIBBs, for example the component configuration MDG_BS_MAT_MATERIAL_FORM delivered with SAP ERP EHP6, then you first need to copy the corresponding component configuration MDG_BS_MAT_MATERIAL_FORM_04 before you implement your extension again. Implement a report and run this report to convert the existing change requests to the new data model as described in the chapter *Enhanced Data Model MM* in this document. Then you have to copy your extensions to the enhanced entities and fields delivered with SAP Master Data Governance 8.0. Exchange your roles as described above.

Note

Check Mandatory field in MDG_BS_MAT_DESCR_LIST component configuration

If you have copied and possibly extended the component configuration MDG_BS_MAT_DESCR_LIST delivered with SAP Master Data Governance 6.1 you need to deselect the flag of the field *Check Mandatory* in the *Additional Settings* of this component configuration.

For more information, see SAP Note [1859448](#) .

2.6.2.2.1.7 Deleting UI-Related Buffers

SAP provides the following UI-related buffers:

- Text Buffer
- Search Help Buffer
- SMT-Mapping Data Buffer
- SPI Metadata Buffer

If you upgrade you need to execute the Customizing activity *Clear UI Metadata Buffers* under ► *Master Data Governance* ► *Master Data Governance for Material* .

This Customizing activity executes a report that clears the following buffers in this sequence:

1. Text Buffer
2. Search Help Buffer
3. SMT-Mapping Data Buffer
4. SPI Metadata Buffer

You should use this report after extending the data model to make sure that the metadata is consistent with the MDG customizing and UI configuration.

Note

The deletion of buffers is not being transported from one system to another. If you execute the Customizing activities, you have to run them in every involved system.

2.6.2.2.1.8 Object Links for Materials

If you want to include this feature in your pre-delivered change request types MAT01, MAT02, MAT06, MAT0A, and MAT0B, then you need to execute the Customizing activity *Import Predefined Change Request Types* under ► *Master Data Governance* ► *Master Data Governance for Material* ► or you can add the entity type DRADBASIC in your change request type using the Customizing activity *Create Change Request Type* under ► *Master Data Governance* ► *Process Modeling* ► *Change Requests* ►.

Note

Restriction: If you have created your own document assignment, for example an entity type ZZ_DRAD, with a model extension, then you need to complete all change requests before you upgrade. Starting a migration report mentioned in chapter Enhancements to Data Model MM and SAP Note [1710311](#)  is not sufficient in this case.

2.6.2.2.2 Master Data Governance for Supplier

2.6.2.2.2.1 Show Master Data Governance for Supplier 6.1 Specific UIBBs

To show the user interface building blocks (UIBB) for the entities delivered with the business function *Master Data Governance for Supplier 6.1* proceed as follows:

Note

Depending on whether you use the supplier UI or the 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_03 and choose *Start NetWeaver Business Client for HTML*.
2. Choose *Search Supplier*.
3. Choose  (*Customize Page*).

Note

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, click on *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: 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 Supplier* screen choose  (Personalize) and on the *Personalize* dialog box choose *Reset to Default*.

Note

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 vendor UI

1. Run transaction NWBC, enter the role SAP_MDGS_MENU_03 and choose *Start NetWeaver Business Client for HTML*.
2. Choose *Search Vendor*.
3. Choose  (Customize Page).

Note

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, click on *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*.

Note

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.

2.6.2.2.2.2 Supplier Data in the Staging Area

2.6.2.2.2.2 Business Partner GUID, Address GUID, and Match Code Fields

With MDG releases higher than EhP5 a business partner GUID, an address GUID, and match code fields are required to process master data objects stored in the staging area.

If you want to continue to process a supplier without business partner GUID, address GUID, or match code fields that have been created in an EhP5 system and are still part of a change request, you need to execute the following reports:

- MDG_BS_BP_BP_GUID_2STA
This report assigns the business partner GUID.
- MDG_BS_BP_ADDRESS_GUID_2STA
This report assigns the address GUID.
- MDG_BS_BP_MATCHCODE_2STA
This report assigns the match code fields.

These reports add the missing data to the staging area and you can then continue to process all change requests that had missing business partner GUIDs, missing address GUID, or missing match code fields.

More Information

For more information, see the SAP Notes [1672462](#) , [1550109](#) , and [1567981](#) .

2.6.2.2.2.2 Company Code Data and Purchasing Organization Data

Company code data and purchasing organization data of suppliers that have been created in an SAP ERP EHP5 system and that are still part of open change requests might get lost when upgrading to a higher MDG release and activating business function MDG_ERP_SUPPLIER_2. If you want to continue to process these suppliers you need to execute the report MDG_BS_ECC_SUPPL_UPGRADE after having activated all business functions necessary for the MDG release you have upgraded to and after having implemented the correction instructions from SAP note [1938397](#) .

More Information

For more information, see SAP note [1938397](#) .

2.6.2.2.2.3 Single Processing of Suppliers

With EhP6, the Business Add-In previously available to adjust the user interface for single processing of Suppliers is no longer available. Instead, a new UI provides greater flexibility while retaining and refining the functionality provided with EhP5. Below is the full list of the functions previously available through the single processing UI by implementing the BAdI in EhP5, that are now provided under the EhP6 UI paradigm:

- Initialize the displayed data
- Restrict the values displayed in a dropdown list field or selection field group
- Restrict the values displayed in the input help
- Dynamically control the visibility of fields on the user interface and of the property that determines if fields are required or display-only
- Define navigation destinations of UI elements of the type hyperlink (or button)
- Check if the lead selection of a table may be changed

For more information see SAP Note [1606341](#) .

2.6.2.2.2.4 Supplier Roles for Menu Structure and Authorizations

With SAP Enhancement Package 6 for SAP ERP 6.0, SAP delivers roles for the menu structure and for authorizations.

The following role for the menu structure is available for Master Data Governance for Supplier:

- `SAP_MDGS_MENU`, Master Data Governance for Supplier: Menu

You need the role `SAP_MDGS_MENU` in order to use the new menu entries and the new UI.

The following roles for authorizations of users are available for Master Data Governance for Supplier:

- `SAP_MDGS_DISP`, Master Data Governance for Supplier: Display

- SAP_MDGS_REQ, Master Data Governance for Supplier: Requester
- SAP_MDGS_SPEC, Master Data Governance for Supplier: Specialist
- SAP_MDGS_STEW, Master Data Governance for Supplier: Data Steward

With MDG 7.0, the following roles are available:

- SAP_MDGS_MENU_04, Master Data Governance for Supplier: Menu
- SAP_MDGS_DISP_04, Master Data Governance for Supplier: Display
- SAP_MDGS_REQ_04, Master Data Governance for Supplier: Requester
- SAP_MDGS_SPEC_04, Master Data Governance for Supplier: Specialist
- SAP_MDGS_STEW_04, Master Data Governance for Supplier: Data Steward
- SAP_MDGS_LVC_MENU_03, Master Data Governance for Supplier (Lean Request UI): Menu
- SAP_MDGS_LVC_REQ_03, Master Data Governance for Supplier (Lean Request UI): Requester

Integration

SAP recommends to copy these roles, adapt them to your needs. Re-implement features you implemented using the UI BADl USMD_UI_EVENT2 in the SAP Enhancement Package 5 for SAP ERP 6.0. For more information, see chapter 2.3.2.2.1 in this document.

The following role becomes obsolete with SAP Enhancement Package 6 for SAP ERP 6.0:

- Supplier Master Data Manager (SAP_MDGS)

More Information

For more information on roles of Master Data Governance for Supplier, see the following:

- Configuration Information for Master Data Governance for Supplier
[Configuring Master Data Governance for Supplier](#) at help.sap.com under **SAP Business Suite** > **SAP ERP Add-Ons** > **SAP Master Data Governance 7.0** > **Configuration of Master Data Governance**
- PFCG Roles
Enter one of the roles mentioned above in transaction PFCG and choose *Role documentation*.
- Portal Roles
[help.sap.com](#) under **SAP Business Suite** > **SAP ERP** > **SAP ERP Central Component** > **SAP Enhancement Package 6 for SAP ERP 6.0** > **Application Help** > **SAP ERP Cross-Application Functions** > **Roles** > **Business Packages (Portal Content)** > **Business Package for Supplier Governance**

2.6.2.2.2.5 Changed Definition of BRFplus Rules for the Supplier Web Dynpro Application

If you want to use the web dynpro application BS_OVP_BP delivered with EhP6 of SAP ERP 6.0 instead of the web dynpro configuration already available in EhP5 of SAP ERP 6.0, you cannot derive attributes of the type-4 entity type BP_CENTRL as part of the type-1 entity type BP_HEADER with cardinality 1:1 anymore.

If you follow this approach using the web dynpro application BS_OVP_BP, you then need to create a function called DERIVE_BP_CENTRL in BRFplus in the Customizing-Activity **Define Validation and Derivation Rules** under ► *General Settings* ► *Data Quality and Search* ► *Validations and Enrichments* ►.

For more information about derivations in BRFplus, see *Definition of Validations and Derivations* at help.sap.com under ► *SAP Business Suite* ► *SAP ERP Add-Ons* ► *SAP Master Data Governance 7.0* ► *Configuration of Master Data Governance* ► *General Settings* ► *Web Dynpro Applications in Customizing* ►.

2.6.2.2.6 Multiple Assignments of Suppliers

The data model BP has changed. In EhP5 it was possible to allocate only one ERP Vendor. With EhP6 it is possible to assign multiple ERP Vendors to one MDG supplier.

The following shows the structure of entity types for EhP5:

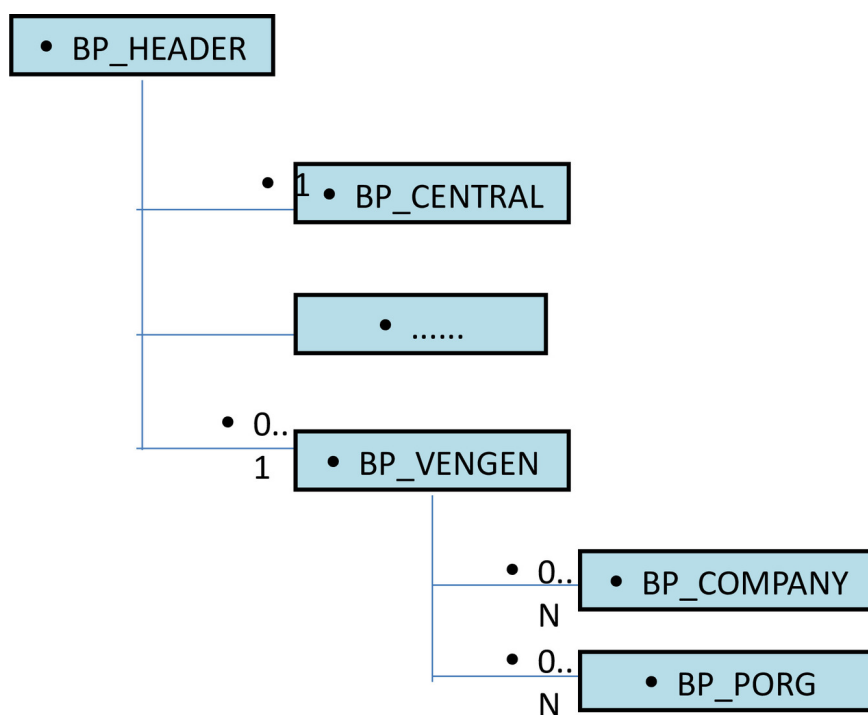


Figure 7: Structure of Entity Types for EhP5

The following shows the structure of entity types for EhP6:

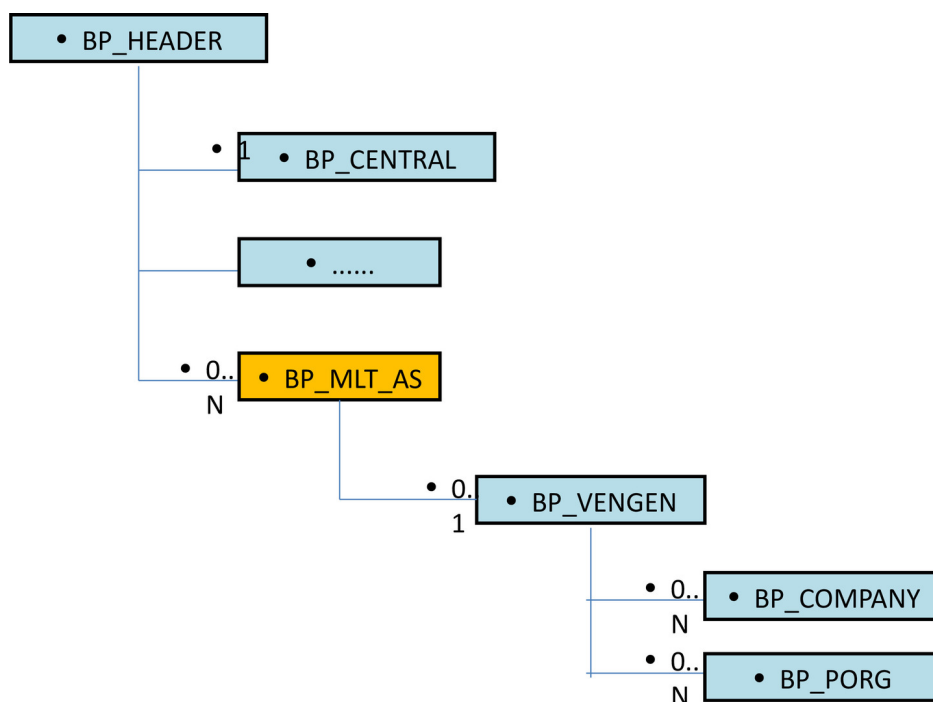


Figure 8: Structure of Entity Types for EhP6

The system automatically adapts change request data when you activate Business Function **MDG_ERP_SUPPLIER_2**.

If you enhance entity types **BP_VENGEN**, **BP_COMPANY**, and **BP_PORG**, it may be necessary to adapt your enhancements.

2.6.2.2.3 Master Data Governance for Customer

2.6.2.2.3.1 Show Master Data Governance for Customer 6.1 Specific UIBBs

To show the user interface building blocks (UIBB) for the entities delivered with the business function *Master Data Governance for Customer 6.1* proceed as follows:

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.
1. Run transaction **NWBC**, enter the role **SAP_MDGC_MENU_03** and choose *Start NetWeaver Business Client for HTML*.
 2. Choose *Search Supplier*.
 3. Choose  (*Customize Page*).

Note

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, click on *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_CU_MLT_ASSIGNMENT
 - *UIBB: ERP Customer: Company Codes* BS_CU_COMPANY_CODES
 - *UIBB: ERP Customer: Sales Area* BS_CU_SALES_AREAS
 - *UIBB: ERP Customer: Tax Indicators* BS_CU_TAX_INDICATORS
 9. As a final step on the *Search Customer* screen choose  (*Personalize*) and on the *Personalize* dialog box choose *Reset to Default*.

Note

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

2.6.2.2.4 Master Data Governance for Financials

Upgrading from EHP5, EHP6, EHP7, and MDG 6.1 to MDG 8.0 or higher

With MDG 8.0, the Business Add-In (BAI) previously available to adjust the user interface for single processing of financial master data is no longer available. Instead, a new user interface provides greater flexibility while retaining and refining the functionality provided with MDG 6.1. Below is the complete list of the functions previously available through the single processing UI by implementing the BAI in MDG 6.1, that are now provided under the MDG 8.0 UI paradigm:

- Initialize the displayed data (when creating a new entity, for example)
- Restrict the values displayed in a dropdown list field or selection field group
- Restrict the values displayed in the input help
- Dynamically control the visibility of fields on the user interface and of the property that determines if fields are required or display-only
- **UI Building Blocks**

Additionally, all UI building blocks (UIBBs) have been rebuilt.

If you have not enhanced the data model or the UI of Master Data Governance for Financials with custom fields, you can use the new SAP predefined UIs.

If you have enhanced the data model or the UI of Master Data Governance for Financials with custom fields, you have to re-implement the enhancements in the new SAP predefined UI:

- Add custom fields to the new SAP pre-defined UIBBs
- Create new custom UIBBs
- Move custom implementation logic into the new custom UIBB feeder classes

- **Report for User Interfaces**

After having upgraded to Master Data Governance for Financials 8.0 you need to start the report `RGZZGLUX` before starting to use the user interfaces delivered with Master Data Governance for Financials 8.0.

Upgrading from EHP5, EHP6, EHP7, MDG 6.1, and MDG 7.0 to MDG 8.0 or higher

- **Open Change Requests**

Before upgrading to Master Data Governance for Financials 8.0 or higher you need to finalize all open change requests of the application Master Data Governance for Financials.

- **Connection to SAP Business Warehouse (BW)**

For the connection between SAP Business Warehouse (BW) and Master Data Governance for Financials 8.0, you need to ensure the following: You have assigned the authorization object `USMD_EDTN` to the user that is utilized for the connection from the BW system to the MDG system.

- **Editions and Change Request Types**

For information about the BC Sets `CA-MDG-APP-FIN_EDITION_05` and `CA-MDG-APP-FIN_CR_TYPES_06` in the context of upgrading to MDG 8.0 or higher, see SAP Note [2138778](#) .

2.7 Software Component Matrix

This Master Guide provides an overview of the system landscape for SAP Master Data Governance. For more information about the required software components for SAP Master Data Governance processes, see the process component lists on SAP Service Marketplace at <http://service.sap.com/scl>

2.8 System Landscape

2.8.1 System Landscape for the MDG Hub

MDG is designed for low TCO. It runs on a single ABAP stack. You must install SAP ERP in order to use the MDG applications.

For EHP8, the SAP ERP Enhancement Package and SAP Solution Manager are mandatory components. For Master Data Governance for Material 9.0, TREX/Enterprise Search is optional if an SAP HANA database has been installed or another search provider has been implemented.

For MDG 9.0 you need to install EHP8.

All other components are optional.

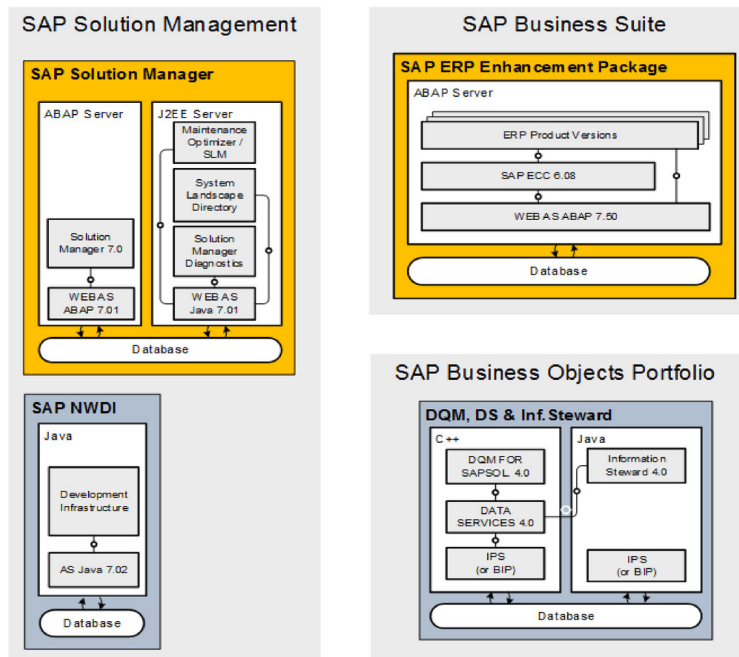


Figure 9: System Landscape for MDG 9.0

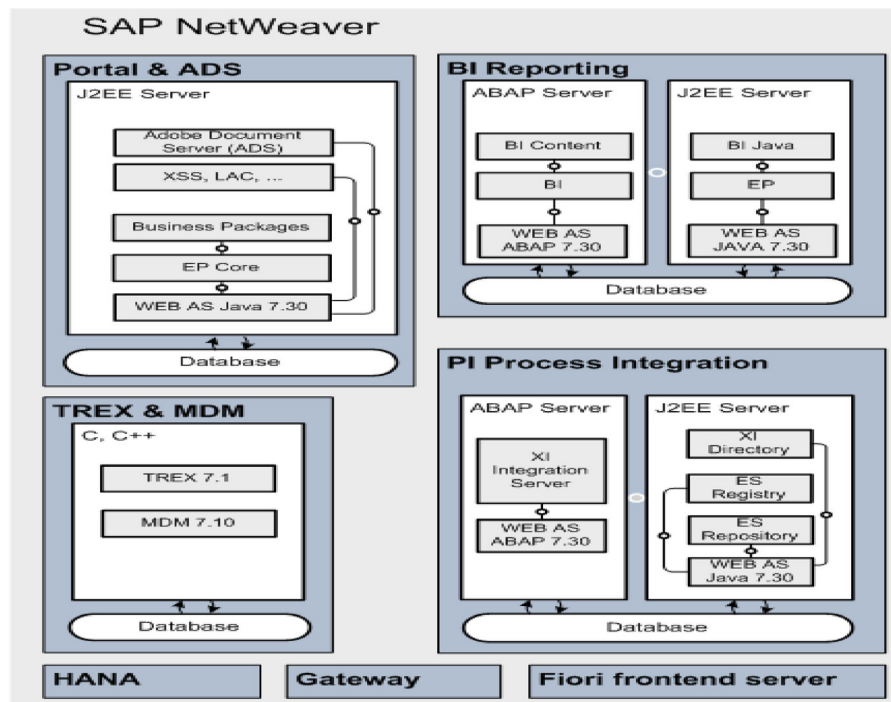


Figure 10: System Landscape for MDG 9.0

The following optional components are available for enhancing:

- Enterprise Search: Search and Duplicate Check
- SAP Business Objects Data Quality Management: Duplicate Check & Address Validation

- SAP Information Steward: Data Quality Reporting (with SAP Information Steward 4.0 and higher) and Data Quality Remediation (with SAP Information Steward 4.1 SP01 and higher)
- SAP Business Objects analytical dashboards: Alternative UIs (instead of standard ALV lists)

i Note

SAP Business Objects analytical dashboards require a JAVA server.

- SAP NetWeaver PI: Third-Party integration or complex system landscape management
- SAP Portal (optional SAP NetWeaver Business Client)
- Adobe Document Server for print forms
- Fiori Frontend Server
- SAP HANA smart data quality SP09 and higher

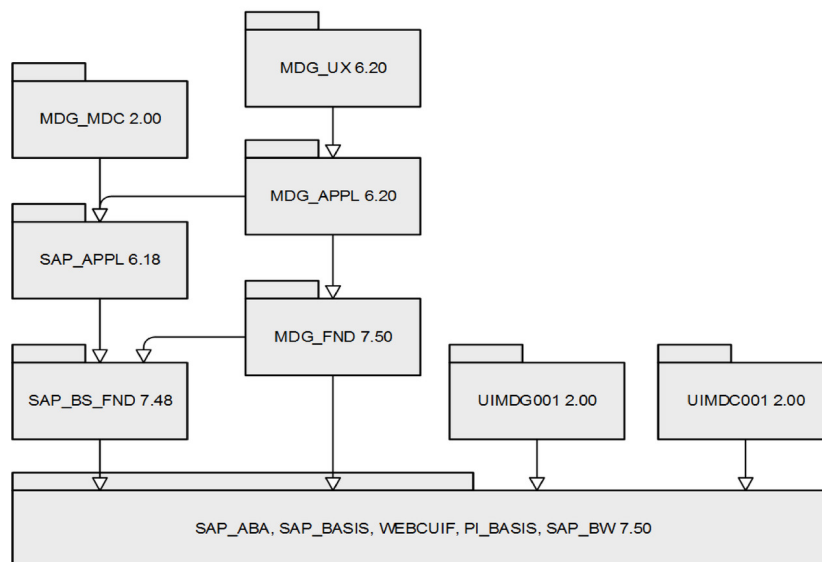


Figure 11: MDG Components

2.8.2 Modeling in PPMS

The following modeling information you find in the Product and Production Management System (PPMS):

2.8.2.1 Product, Product Version, Instance and Technical Usage

- Product: SAP MASTER DATA GOVERNANCE
- Product Version: SAP MASTER DATA GOVERNANCE 9.0
- Instance: Master Data Governance

- Technical Usage: Master Data Governance

2.9 Installation Options and Upgrade Sequence

Prerequisites

You can install MDG 9.0 based on SAP ERP EHP08.

To be able to use MDG 9.0 you need to install a version of Microsoft Internet Explorer not lower than IE 9.0.

2.9.1 Installation sequence

The following tables describe the installation options for MDG 9.0 based on SAP ERP EHP8.

2.9.1.1 MDG, Consolidation and Mass Processing: Standardization and Matching Adapters of SAP HANA EIM

If for MDG, consolidation and mass processing you want to use the standardization adapters and the matching adapters of SAP HANA Enterprise Information Management (SAP HANA EIM) SP09, you need to implement SAP HANA EIM SP09 or higher.

Note

The term *standardization* in MDG, consolidation and mass processing is referred to as *cleansing* in SAP HANA EIM.

For more information on the installation and configuration of SAP HANA EIM SP09 regarding extract, transfer, and load (ETL) functions, standardization, and matching, see the following documents available at help.sap.com/hana_options_eim:

- [SAP HANA Enterprise Information Management Master Guide](#)
- [SAP HANA Enterprise Information Management Administration Guide](#)
- [SAP HANA Enterprise Information Management Configuration Guide](#)

For more information on the MDG, consolidation and mass processing specific settings, see Customizing activity *Specify Adapters* under *Master Data Governance, Consolidation and Mass Processing*.

2.9.1.2 SAP HANA-Based Search for Master Data Governance

The SAP HANA database must be on support package 06. We recommend to install the highest available version of the SAP HANA database.

Caution

SAP HANA fuzzy search capabilities cannot be consumed using ABAP Open SQL. Therefore you always need a secondary database connection where the SQL statement can be handled using native SQL.

Component DMIS

If you need SLT mapping for the MDG HANA search because you are using SAP HANA in a side-by-side environment and are not using SAP HANA as the primary database, you need to install the component DMIS. Do not use DMIS versions lower than DMIS 2011_1_700 SP04 or according to SPs of other component versions. If you do not use the MDG HANA search or you use HANA as the primary database, you do not have to install the component DMIS.

SAP HANA-Based Search Drill-Down Search for Master Data Governance

SAP recommends the dual system deployment scenario, where back-end system and Gateway hub are deployed on different systems.

Since MDG 9.0 is based on NetWeaver 7.50, you do not need to install the Gateway component `SAP_GWFND` because it is part of NetWeaver 7.50.

For more information on the drill-down search, see *Configuring Drill-Down Search (Optional)* at help.sap.com under ► *Data Management* ► *SAP Master Data Governance* ► *SAP Master Data Governance 9.0* ► *Application Help* ► *Configuration of Master Data Governance* ► *Configuration of SAP MDG, Central Governance* ► *Configuring Master Data Governance for Custom Objects* ► *Data Quality and Search* ► *Search Providers for Master Data Governance* ► *Configuring SAP HANA-Based Search for MDG* ►.

Note

If you use HANA-based search for Master Data Governance for Material then you must run the report `MDG_HDB_MAT_MIGRATE_LONGTEXT` to build the long-text for the search.

2.9.1.3 ESR Content in XI Content Software Component Versions

You can find ESR Content in the software component versions `XI_CONTENT_MDG_APPLICATIONS620` and `XI_CONTENT_MDG_FOUNDATION_750` for the following applications of Master Data Governance 9.0:

- Master Data Governance for Supplier
- Master Data Governance for Customer
- Master Data Governance for Business Partner
- Master Data Governance for Material

2.9.1.4 Master Data Governance for Financials

Table 10

Component	Action	Mandatory/Optional	Remarks
SAP ECC Server or SAP R/3 Server	Install or upgrade to MDG 9.0	Mandatory	MDG 9.0 supports EHP8 of SAP ECC Server
SAP NW Business Intelligence (BI)	Install or upgrade to MDG 9.0	Optional	n.a.
SAP NW Enterprise Portal / SAP NW – EP Core	Install or upgrade to MDG 9.0	Optional	SAP NetWeaver 7.30
SAP NW SEM (Strategic Enterprise Management)	Install or upgrade to MDG 9.0	Optional	Minimum hub requirement: SAP Netweaver 7.1
SAP NW Enterprise Search	Install or upgrade to MDG 9.0	Optional	TREX 7.1
Search and Classification (TREX)	Install or upgrade to MDG 9.0	Optional	TREX 7.1
SAP NW Process Integration (PI /XI))	Install or upgrade to MDG 9.0	Optional	SAP NetWeaver 7.30

2.9.1.5 Master Data Governance for Material

Table 11

Component	Action	Mandatory/Optional	Remarks
SAP ECC Server	Install or upgrade to MDG 9.0	Mandatory	MDG 9.0 supports EHP8 of SAP ECC Server
SAP NW Enterprise Search	Install or upgrade to MDG 9.0	Optional	TREX 7.1
SAP NW Master Data Management	Install or upgrade to MDG 9.0	Optional	Minimum hub requirement: SAP NetWeaver 7.1
SAP NW Enterprise Portal	Install or upgrade to MDG 9.0	Optional	SAP NetWeaver 7.30
SAP NW Process Integration (PI /XI)	Install or upgrade to MDG 9.0	Optional	SAP NetWeaver 7.30
BI Java Components and Java Server for Graphical Analytics	Install or upgrade to MDG 9.0	Optional	n.a.
Search and Classification (TREX)	Install or upgrade to MDG 9.0	Mandatory	TREX 7.1

2.9.1.6 Master Data Governance for Customer

Table 12

Component	Action	Mandatory/Optional	Remarks
SAP ECC Server	Install or upgrade to MDG 9.0	Mandatory	MDG 9.0 supports EHP8 of SAP ECC Server
SAP NW Enterprise Search	Install or upgrade to MDG 9.0	Optional	TREX 7.1
SAP NW Master Data Management	Install or upgrade to MDG 9.0	Optional	Minimum hub requirement: SAP NetWeaver 7.1
SAP NW Enterprise Portal	Install or upgrade to MDG 9.0	Optional	SAP NetWeaver 7.30
SAP NW Process Integration (PI / XI)	Install or upgrade to MDG 9.0	Optional	SAP NetWeaver 7.30
BI Java Components and Java Server for Graphical Analytics	Install or upgrade to MDG 9.0	Optional	n.a.
Search and Classification (TREX)	Install or upgrade to MDG 9.0	Optional	TREX 7.1
SAP Business Objects Data Quality Management	Install or upgrade to MDG 9.0	Optional	n.a.

Enhanced Integration for SAP CRM

MDG 9.0 supports the following releases for the enhanced integration for SAP CRM:

- SAP CRM as a client: SAP CRM 7.0 EHP02 and higher
- SAP ERP as a client: SAP R/3 4.70 (SAP R/3 Enterprise) and higher

Replication Mode

The communication between an SAP CRM system and the MDG hub system takes always place using SOA services. The communication between an SAP ERP system and the MDG hub system takes either place using SOA services or using IDocs of type DEBMAS (valid for older SAP ERP releases). If you want to replicate using ALE between the MDG hub and the ERP client you need to create a new implementation of BADI IDOC_DATA_MAPPER. A further BADI implementation is necessary if the release of your CRM system is lower than CRM 7.0 EHP03.

For more information, see SAP note [1929736](#) .

Distribution Lock and Restart of Business Transactions in SAP CRM

You can use the distribution lock for business transactions and the restart of business transactions in SAP CRM.

For more information, see SAP note [1975213](#) .

2.9.1.7 Master Data Governance for Supplier

Table 13

Component	Action	Mandatory/Optional	Remarks
SAP ECC Server	Install or upgrade to MDG 9.0	Mandatory	MDG 9.0 supports EHP8 of SAP ECC Server
SAP NW Enterprise Search	Install or upgrade to MDG 9.0	Optional	TREX 7.1
SAP NW Master Data Management	Install or upgrade to MDG 9.0	Optional	Minimum hub requirement: SAP NetWeaver 7.1
SAP NW Enterprise Portal	Install or upgrade to MDG 9.0	Optional	SAP NetWeaver 7.30
SAP NW Process Integration (PI /XI)	Install or upgrade to MDG 9.0	Optional	SAP NetWeaver 7.30
BI Java Components and Java Server for Graphical Analytics	Install or upgrade to MDG 9.0	Optional	n.a.
Search and Classification (TREX)	Install or upgrade to MDG 9.0	Optional	TREX 7.1
SAP Business Objects Data Quality Management	Install or upgrade to MDG 9.0	Optional	n.a.

2.9.1.8 Master Data Governance for Business Partner

Table 14

Component	Action	Mandatory/Optional	Remarks
SAP ECC Server	Install or upgrade to MDG 9.0	Mandatory	MDG 9.0 supports EHP8 of SAP ECC Server
SAP NW Enterprise Search	Install or upgrade to MDG 9.0	Optional	TREX 7.1
SAP NW Master Data Management	Install or upgrade to MDG 9.0	Optional	Minimum hub requirement: SAP NetWeaver 7.1
SAP NW Enterprise Portal	Install or upgrade to MDG 9.0	Optional	SAP NetWeaver 7.30
SAP NW Process Integration (PI /XI)	Install or upgrade to MDG 9.0	Optional	SAP NetWeaver 7.30
BI Java Components and Java Server for Graphical Analytics	Install or upgrade to MDG 9.0	Optional	n.a.
Search and Classification (TREX)	Install or upgrade to MDG 9.0	Optional	TREX 7.1

Component	Action	Mandatory/Optional	Remarks
SAP Business Objects Data Quality Management	Install or upgrade to MDG 9.0	Optional	n.a.

2.9.1.9 Master Data Governance for Custom Objects

Table 15

Component	Action	Mandatory/Optional	Remarks
SAP ECC Server	Install or upgrade to MDG 9.0	Mandatory	MDG 9.0 supports EHP8 of SAP ECC Server
SAP NW Master Data Management	Install or upgrade to MDG 9.0	Optional	Minimum hub requirement: SAP NetWeaver 7.1
SAP NW Enterprise Portal	Install or upgrade to MDG 9.0	Optional	SAP NetWeaver 7.30
SAP NW Process Integration (PI /XI)	Install or upgrade to MDG 9.0	Optional	SAP NetWeaver 7.30
BI Java Components and Java Server for Graphical Analytics	Install or upgrade to MDG 9.0	Optional	n.a.
Search and Classification (TREX)	Install or upgrade to MDG 9.0	Optional	TREX 7.1
SAP Business Objects Data Quality Management	Install or upgrade to MDG 9.0	Optional	n.a.

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