



PUBLIC

How-To: Enable Integrated HANA Search for MDG-Financial Master Data

Applicable Releases:

From MDG 7.0 and from SAP S/4HANA 1511

Version 2.0

August 2023

Document History

Document Version	Description
1.0	First official release of this guide
1.1	Update new SAP Community links
2.0	Layout and links update (Aug 2023)

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1 Business Scenario

SAP Master Data Governance (MDG) provides business processes to find, create, change, and mark master data for deletion. It supports the governance of master data in a central hub and the distribution to connected operational and business intelligence systems.

The processes are workflow-driven and can include several approval and revision phases, and the collaboration of all users participating in the master data maintenance.

MDG offers change request (CR)-based processing of master data with integrated workflow, staging, approval, activation, and distribution.

This document explains how to enable the new functionality for HANA search. It describes the key concepts and implementation details as well as possible enhancement options.

1.1 MDG for Financials

MDG offers a domain specific solution for financial governance (MDG-F). The current MDG-F data model is called OG. It covers entity types of the following categories of financial master data:

- **Accounting**: for example, **G/L Account** (ACCOUNT & ACCCCDET), **Company**
- **Controlling**: for example, **Cost Center** (CCTR), Cost Element (CELEM), and **Profit Center** (PCTR)
- **Consolidation**: for example **Consolidation Unit** (CONSUNIT), **Item** (FSI)

1.2 Technical Information

This document refers to development artifacts that are provided by SAP with MDG 7.0 feature pack 1 respectively support package 2. It is mandatory that this package is applied to your MDG system. Otherwise you cannot enable the functionality.

1.3 Scenario

You want to enable HANA search for financial objects because of big volume data or advanced features provided by HANA database such as free style and fuzzy search. The document explains the configuration steps you apply to the MDG system to enable this feature. It also describes how to connect the search application with the HANA search UIBB and how to generate the HANA search view.

2 Implementation

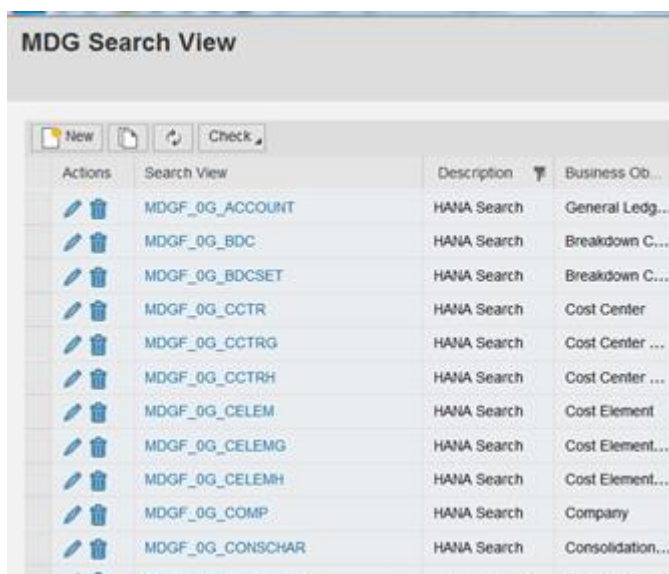
2.1 Prerequisite

Before you start the implementation, ensure HANA is connected to the MDG system. If not, we recommend you refer to [Configuring SAP HANA-Based Search for MDG](#) guide.

2.2 Generate a HANA Search View in the HANA database

1. In Customizing for **Master Data Governance** (transaction MDGIMG), open activity **General Settings -> Data Quality and Search -> Search and Duplicate Check -> Create Search View**.

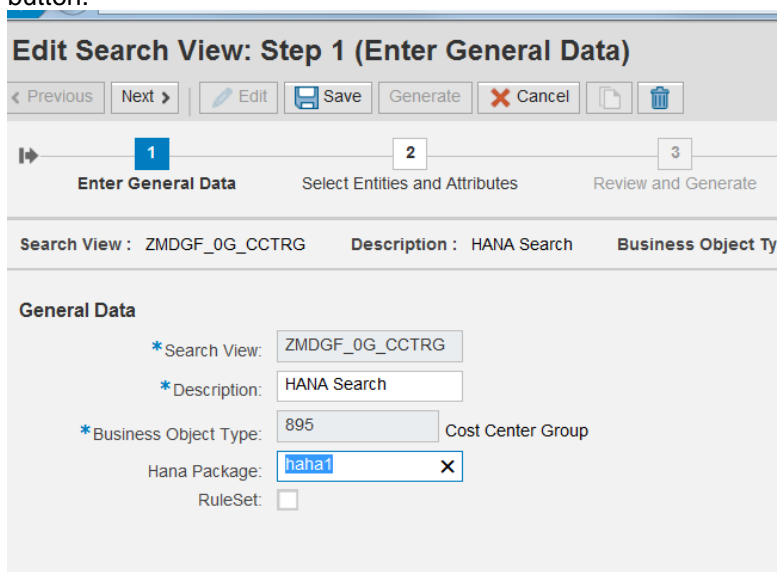
Find the search views that are relevant to the MDGF pre-delivered view for data model 0G. (You can refer to [List of Financial Objects That Support the HANA Search](#) and use the filter row to find search views that start with MDGF_0G_*..) Choose the **Edit** button to open each search view.



The screenshot shows the 'MDG Search View' table in the SAP MDGIMG transaction. The table has four columns: 'Actions', 'Search View', 'Description', and 'Business Ob...'. It lists several search views starting with 'MDGF_0G_', including MDGF_0G_ACCOUNT, MDGF_0G_BDC, MDGF_0G_BDCSET, MDGF_0G_CCTR, MDGF_0G_CCTRГ, MDGF_0G_CCTRH, MDGF_0G_CELEM, MDGF_0G_CELEMГ, MDGF_0G_CELEMH, MDGF_0G_COMP, and MDGF_0G_CONSCHAR. Each row has an 'Edit' icon in the 'Actions' column.

Actions	Search View	Description	Business Ob...
	MDGF_0G_ACCOUNT	HANA Search	General Ledg...
	MDGF_0G_BDC	HANA Search	Breakdown C...
	MDGF_0G_BDCSET	HANA Search	Breakdown C...
	MDGF_0G_CCTR	HANA Search	Cost Center
	MDGF_0G_CCTRГ	HANA Search	Cost Center ...
	MDGF_0G_CCTRH	HANA Search	Cost Center ...
	MDGF_0G_CELEM	HANA Search	Cost Element
	MDGF_0G_CELEMГ	HANA Search	Cost Element...
	MDGF_0G_CELEMH	HANA Search	Cost Element...
	MDGF_0G_COMP	HANA Search	Company
	MDGF_0G_CONSCHAR	HANA Search	Consolidation...

2. Enter the **Hana package** provided to you by your HANA system administrator and choose the **Save** button.



The screenshot shows the 'Edit Search View: Step 1 (Enter General Data)' dialog box. It has a navigation bar with 'Previous', 'Next >', 'Edit', 'Save', 'Generate', 'Cancel', and a trash icon. Below the navigation bar are three steps: '1 Enter General Data', '2 Select Entities and Attributes', and '3 Review and Generate'. The 'Search View' is 'ZMDGF_0G_CCTRГ', 'Description' is 'HANA Search', and 'Business Object Type' is '895 Cost Center Group'. The 'Hana Package' is 'hana1' and 'RuleSet' is empty.

Edit Search View: Step 1 (Enter General Data)

< Previous Next > Edit Save Generate Cancel

1 Enter General Data 2 Select Entities and Attributes 3 Review and Generate

Search View : ZMDGF_0G_CCTRГ Description : HANA Search Business Object Ty

General Data

*Search View: ZMDGF_0G_CCTRГ

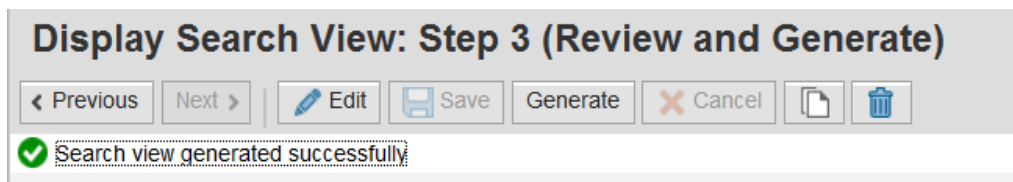
*Description: HANA Search

*Business Object Type: 895 Cost Center Group

Hana Package: hana1 X

RuleSet:

3. Choose the **Next** button until last step and choose the **Generate** button.

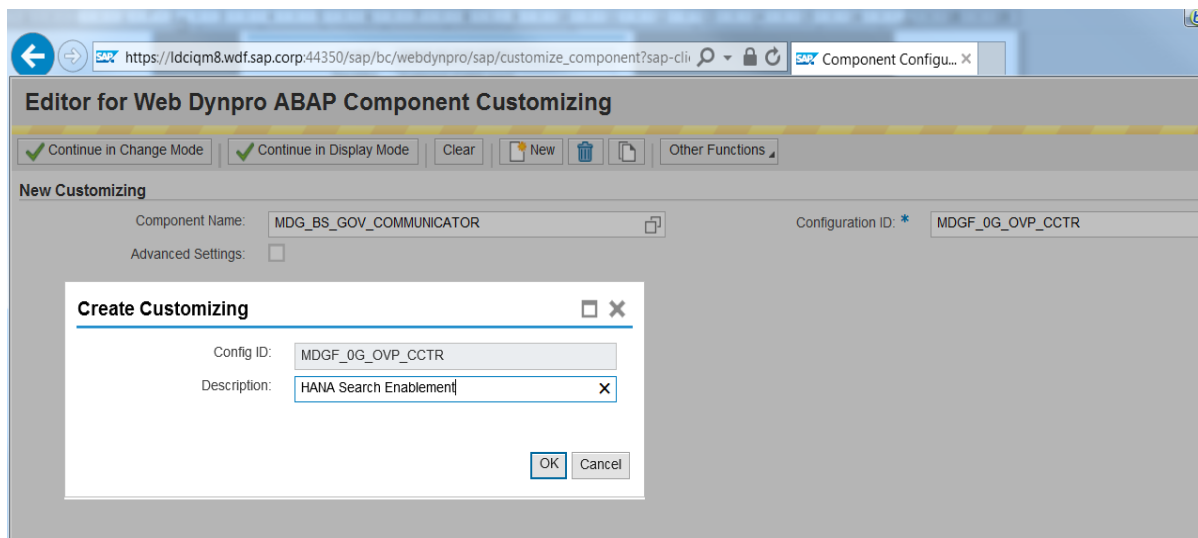


A message informs you that view generation is successful.

2.3 Enable the HANA Search UIBB

Proceed as follows to add an SAP-delivered search UIBB to the communicator configuration:

1. Start the customizing configurator for the communicator configuration.
 - 1.1. Start Web Dynpro application: **CUSTOMIZE_COMPONENT**
 - 1.2. Enter **Component Name**: **MDG_BS_GOV_COMMUNICATOR**
 - 1.3. Enter **Configuration ID**: (find it in [List of Financial Objects That Support the HANA Search in MDG](#))
 - 1.4. Choose the **New** button, enter a description and choose the **OK**, and select a transport request if your customizing needs to be transported to other systems.



2. In the **Configuration Context** section, expand the **settings** node and choose **New->searchUibbs**. In the **Attributes of Element searchUibbs**, enter the relevant object parameters provided in the [List of Financial Objects That Support the HANA Search](#). Here are the sample parameters for **Cost Center**:
 - **Search Mode**: HA
 - **Incl.SearchHelp**: MDGF_0G_CCTR
 - **Component**: FPM_SEARCH_UIBB
 - **Config ID**: MDGF_0G_CCTR_DQUERY_HA

Component Customizing MDGF_0G_OVP_CCTR

Save Cancel Edit Check New Window Enhance Properties

Component-Defined

Configuration Context

Elements

- context
 - settings
 - crWires (MDGF_0G_CCTR_OVP)
 - searchUibbs (1)
 - searchUibbs (2)**

Attributes of the Element searchUibbs (2)

Search Mode: HA ☐ Final

Incl. Search Help: MDGF_0G_CCTR ☐ Final

Component: FPM_SEARCH_UIBB ☐ Final

Config ID: MDGF_0G_CCTR_DQUERY_HA ☐ Final

Goto Configuration

3. (Conditional Step) If you use the following entity types: **G/L Account(Company Code)-ACCCDET**, **Financial Reporting Structure Item-FRSI**, and **Text Item-FSIT**, repeat the previous step for the two **HANA Search UIBBs** in the [List of Financial Objects That Support the HANA Search](#).

Component Customizing MDGF_0G_OVP_FI_REPORT

Save Cancel Edit Check New Window Enhance Properties

Component-Defined

Configuration Context

Elements

- context
 - settings
 - crWires (MDGF_0G_FI_REPORT_OVP)
 - searchUibbs (1)
 - searchUibbs (2)
 - searchUibbs (3)**

Attributes of the Element searchUibbs (3)

Search Mode: HA ☐ Final

Incl. Search Help: MDGF_0G_FRSI ☐ Final

Component: FPM_SEARCH_UIBB ☐ Final

Config ID: MDGF_0G_FI_REP_ITEM_DQUERY_HA ☐ Final

Goto Configuration

4. (Conditional Step) If you use the following special entity types: **G/L Account(Company Code)-ACCCDET**, **Financial Reporting Structure Item-FRSI**, and **Text Item-FSIT**, proceed as follows:
- 4.1. Start the customizing configurator for the communicator configuration.
 - 4.2. Start Web Dynpro application: **CUSTOMIZE_COMPONENT**
 - 4.3. Enter **Component Name**: **FPM_SEARCH_UIBB**.
 - 4.4. Enter **Configuration IDs** based on the following table.

Special Entity Type	Main Entry Configure ID
G/L Account(Company Code)-ACCCDET	MDGF_0G_FI_ACCOUNT_DQUERY_DB
Financial Reporting Structure Item-FRSI	MDGF_0G_FI_REPORT_DQUERY_DB
Text Item-FSIT	MDGF_0G_CO_REPORT_DQUERY_DB

- 4.5. In **General Settings**, choose the **Feeder Class Parameter** button. In **Morph Entry With UIBB Terminus** block, enter data based on the tables below:

For **G/L Account (Company Code)-ACCCDET**:

Spot Name	Spot Value	Entry Key	Parent Key	Config ID
MDG USMD Search Entity Type	ACCCDET	ENTRY1		MDGF_0G_FI_ACCCCDET_DQUERY_DB
MDG USMD Search Application	DB	ENTRY2	ENTRY1	MDGF_0G_FI_ACCCCDET_DQUERY_DB
MDG USMD Search Application	HA	ENTRY3	ENTRY1	MDGF_0G_FI_ACCCCDET_DQUERY_HA
MDG USMD Search Entity Type	ACCOUNT	ENTRY4		MDGF_0G_FI_ACCOUNT_DQUERY_DB
MDG USMD Search Application	DB	ENTRY5	ENTRY4	MDGF_0G_FI_ACCOUNT_DQUERY_DB
MDG USMD Search Application	HA	ENTRY6	ENTRY4	MDGF_0G_FI_ACCOUNT_DQUERY_HA

For **Financial Reporting Structure Item-FRSI**:

Spot Name	Spot Value	Entry Key	Parent Key	Config ID
MDG USMD Search Entity Type	FRSI	ENTRY1		MDGF_0G_FI_REP_ITEM_DQUERY_DB
MDG USMD Search Application	DB	ENTRY2	ENTRY1	MDGF_0G_FI_REP_ITEM_DQUERY_DB
MDG USMD Search Application	HA	ENTRY3	ENTRY1	MDGF_0G_FI_REP_ITEM_DQUERY_HA
MDG USMD Search Entity Type	FRS	ENTRY4		MDGF_0G_FI_REPORT_DQUERY_DB
MDG USMD Search Application	DB	ENTRY5	ENTRY4	MDGF_0G_FI_REPORT_DQUERY_DB
MDG USMD Search Application	HA	ENTRY6	ENTRY4	MDGF_0G_FI_REPORT_DQUERY_HA

For **Text Item-FSIT**:

<i>Spot Name</i>	<i>Spot Value</i>	<i>Entry Key</i>	<i>Parent Key</i>	<i>Config ID</i>
MDG USMD Search Entity Type	FSIT	ENTRY1		MDGF_0G_CO_REP_ITEM_DQUERY_DB
MDG USMD Search Application	DB	ENTRY2	ENTRY1	MDGF_0G_CO_REP_ITEM_DQUERY_DB
MDG USMD Search Application	HA	ENTRY3	ENTRY1	MDGF_0G_CO_REP_ITEM_DQUERY_HA
MDG USMD Search Entity Type	FSIH	ENTRY4		MDGF_0G_CO_REPORT_DQUERY_DB
MDG USMD Search Application	DB	ENTRY5	ENTRY4	MDGF_0G_CO_REPORT_DQUERY_DB
MDG USMD Search Application	HA	ENTRY6	ENTRY4	MDGF_0G_CO_REPORT_DQUERY_HA

You have completed all steps to enable the HANA search application.

3 Testing

Start your search application. A new Search Method **HANA Search** is available in the dropdown list. In addition, the following features are available:

- Free Text Search input in **Search Criteria** section.
- When search result is displayed, you could get a percentage in the **Rank** column to indicate how similar the records found are to your search criteria.
- Fuzzy search is supported on many attributes. For example **Name** and **Description**.

Search Cost Center

Search Method: **HANA Search**
Database Search
HANA Search

Saved Searches:

Search Criteria

Free Text Search:

Controlling Area:
Cost Center:
Name:
Valid On:

☒ Maximum Number of Results: 100

Save Search As:

Result List: 61 records found

Pending Change	Controlling Area	Cost Center	Name	Valid-From Date	Valid-T...	Medium Text	Person Resp...	User Resp...	Rank
	0001	CTCO	CTCO	27.06.2013	31.12.9...	CTCO	rauscher		100.00
	0001	741	test cost1	01.02.2012	31.12.9...	test cost1	z5100574		99.35
	0001	KST01	Cost Center Mch	01.08.2013	31.12.9...	Cost Center Munich	Manager		97.27
	0001	300111	geters cost center	05.09.2013	31.12.9...	cost center middle L...	Neumayer		96.89
	0001	451000	Cost Center test	01.02.2017	31.12.9...	Cost Center test long	thiel	THELA	96.89
	DE01	691681	Cost Center 691681	06.01.2014	08.01.2...	Cost Center 69168...	Andreas Steinh...	STENRUCH	96.61
	DE01	691681	Cost Center 691681	09.01.2014	31.12.9...	Cost Center 69168...	S. Rutkowski...	RUKAWSC...	96.61
	DE01	691681	Cost Center 691681	01.01.2006	31.12.9...	Cost Center 69168...	S. Rutkowski...	RUKAWSC...	97.64
	0001	WTNCC200	WTN Cost Center 200	20.08.2013	31.12.9...	Cost Center 200 m...	Edward Snowden	MOHR	96.22
	0001	AC241		01.02.2012	31.12.9...		Bob Sindler	MDOF_ALL	95.99

4 Appendix A: List of Financial Objects That Support the HANA Search in MDG

Object Name	Communicator <i>Configuration ID</i>	HANA Search UIBB	HANA Search View/Search Help
G/L Account	MDGF_0G_OVP_FI_ACCOUNT	MDGF_0G_FI_ACCOUNT_DQUERY_HA	MDGF_0G_ACCOUNT
		MDGF_0G_FI_ACCCCDET_DQUERY_HA	MDGF_0G_ACCCCDET
Financial Reporting Structure	MDGF_0G_OVP_FI_REPORT	MDGF_0G_FI_REPORT_DQUERY_HA	MDGF_0G_FRS
		MDGF_0G_FI_REP_ITEM_DQUERY_HA	MDGF_0G_FRSI
Company	MDGF_0G_OVP_COMPANY	MDGF_0G_COMPANY_DQUERY_HA	MDGF_0G_COMP
Cost Center	MDGF_0G_OVP_CCTR	MDGF_0G_CCTR_DQUERY_HA	MDGF_0G_CCTR
Cost Center Group	MDGF_0G_OVP_CCTRG	MDGF_0G_CCTRG_DQUERY_HA	MDGF_0G_CCTRG
Cost Center Group Hierarchy	MDGF_0G_OVP_CCTRH	MDGF_0G_CCTRH_DQUERY_HA	MDGF_0G_CCTRH
Cost Element	MDGF_0G_OVP_CELEM	MDGF_0G_CELEM_DQUERY_HA	MDGF_0G_CELEM
Cost Element Group	MDGF_0G_OVP_CELEMG	MDGF_0G_CELEMG_DQUERY_HA	MDGF_0G_CELEMG
Cost Element Group Hierarchy	MDGF_0G_OVP_CELEMH	MDGF_0G_CELEMH_DQUERY_HA	MDGF_0G_CELEMH
Profit Center	MDGF_0G_OVP_PCTR	MDGF_0G_PCTR_DQUERY_HA	MDGF_0G_PCTR
Profit Center Group	MDGF_0G_OVP_PCTRG	MDGF_0G_PCTRG_DQUERY_HA	MDGF_0G_PCTRG
Profit Center Group Hierarchy	MDGF_0G_OVP_PCTRH	MDGF_0G_PCTRH_DQUERY_HA	MDGF_0G_PCTRH
Item	MDGF_0G_OVP_CO_ACCOUNT	MDGF_0G_CO_ACCOUNT_DQUERY_HA	MDGF_0G_FSI

Item Hierarchy	MDGF_0G_OVP_CO_REPORT	MDGF_0G_CO_REPORT_DQUERY_HA	MDGF_0G_FSIH
		MDGF_0G_CO_REP_ITEM_DQUERY_HA	MDGF_0G_FSIT
Consolidation Characteristic	MDGF_0G_OVP_CONSCHAR	MDGF_0G_CONSCHAR_DQUERY_HA	MDGF_0G_CONSCHAR
Consolidation Unit	MDGF_0G_OVP_CONSUNIT	MDGF_0G_CONSUNIT_DQUERY_HA	MDGF_0G_CONSUNIT
Consolidation Group	MDGF_0G_OVP_CONSGRP	MDGF_0G_CONSGRP_DQUERY_HA	MDGF_0G_CONSGRP
Consolidation Structure	MDGF_0G_OVP_CONSGRPH	MDGF_0G_CONSGRPH_DQUERY_HA	MDGF_0G_CONSGRPH
Breakdown Category	MDGF_0G_OVP_BDC	MDGF_0G_BDC_DQUERY_HA	MDGF_0G_BDC
Breakdown Category Set	MDGF_0G_OVP_BDCSET	MDGF_0G_BDCSET_DQUERY_HA	MDGF_0G_BDCSET
Cause for Submission	MDGF_0G_OVP_SUBMPACK	MDGF_0G_SUBMPACK_DQUERY_HA	MDGF_0G_SUBMPACK
Transaction Type	MDGF_0G_OVP_TRANSTYPE	MDGF_0G_TRANSTYPE_DQUERY_HA	MDGF_0G_TRANSTYPE

5 Additional Information

5.1 Further Reading

5.1.1 Information on SAP MDG on SAP S/4HANA

- Exchange knowledge: [SAP Community](#) | [Q&A](#) | [Blog](#)
- Try SAP Master Data Governance on S/4HANA for free: [Trial Version](#)
- Try SAP Master Data Governance on S/4HANA on the SAP Cloud Appliance Library: [S/4HANA 2022 FPS1](#)
- Learn more: [Latest Release](#) | [Help Portal](#) | [How-to Information](#) | [Key Presentations](#)

5.1.2 SAP Roadmap Explorer

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

5.1.3 Related Information

- Learn more: [Floorplan Manager for Web Dynpro ABAP](#) | [How to Adapt FPM](#) | [FPM Blog](#) | [How-to Information](#) | [Service Mapping Tool](#) | [SAP S/4HANA Cookbook CVI](#)

5.2 SAP Notes

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

Note	Description
2021246	MDG-F: (Un-) Supported Fields in Data Model OG
1619534	How to Create, Enhance and Adapt FPM Applications
1637249	MDG: Information for efficient message processing
2105467	MDG Performance
2561461	Scope of support for SAP Master Data Governance (MDG)

