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# 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 0G. 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.



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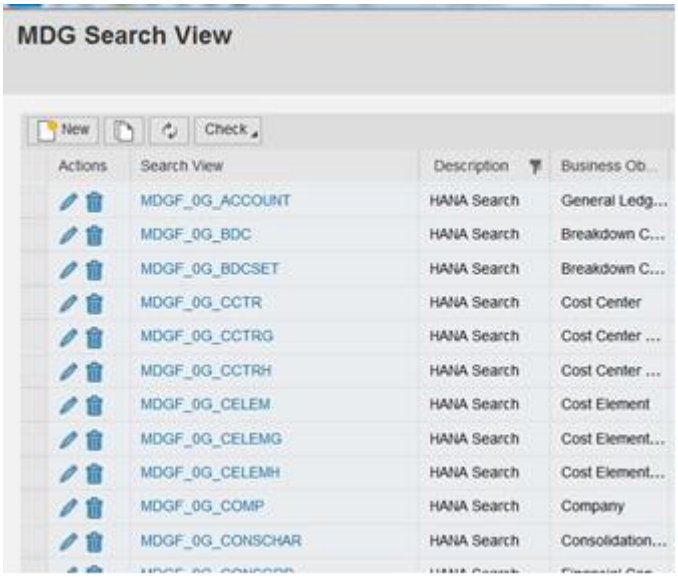
# 2 Implementation

## 2.1 Prerequisite

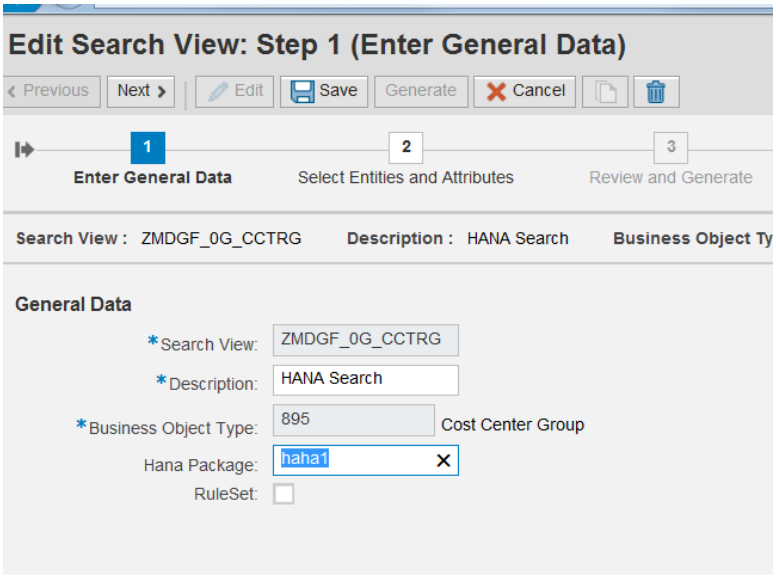
Before you start the implementation, ensure HANA is connected to the MDG system. If not, we recommend you refer to Configuring SAP HANA-Based Search for MDG guide.

## 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.




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



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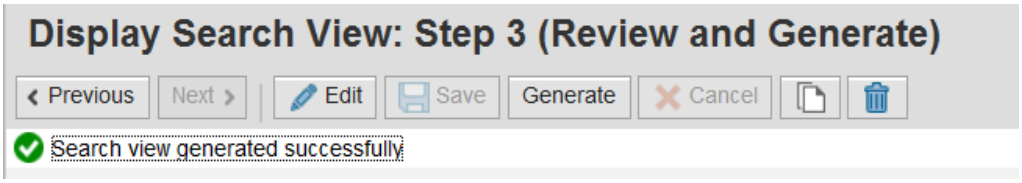
3. Choose the ***Next*** button until last step and choose the ***Generate*** button.

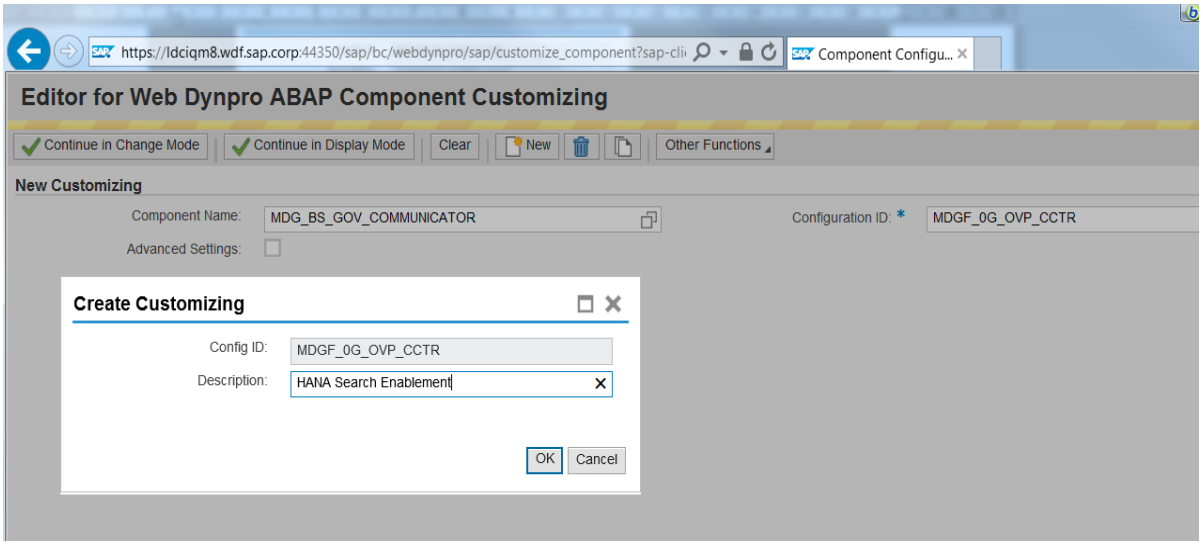



A message informs you that view generation is successful.

## 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`**



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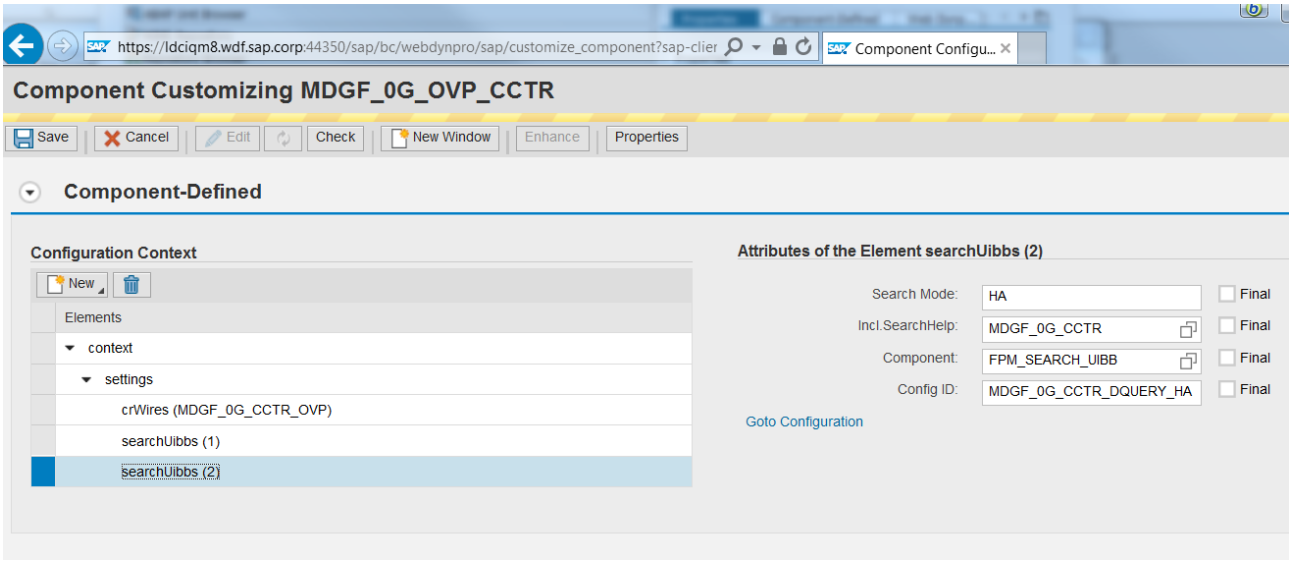


3. *(Conditional Step)* If you use the following entity types: ***G/L Account(Company Code)-ACCCCDET***, ***Financial Reporting Structure Item-FRSI***, and ***Text Item-FSIT***, repeat the previous step for the two ***HANA Search UIBBs*** in the List of Financial Objects That Support the HANA Search.

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 ID***s 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`** |



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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*** | ACCCCDET | 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 |



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For ***Text Item-FSIT***:

| *Spot Name* | *Spot Value* | *Entry Key* | *Parent Key* | ***Config ID*** |
|---|---|---|---|---|
| ***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.



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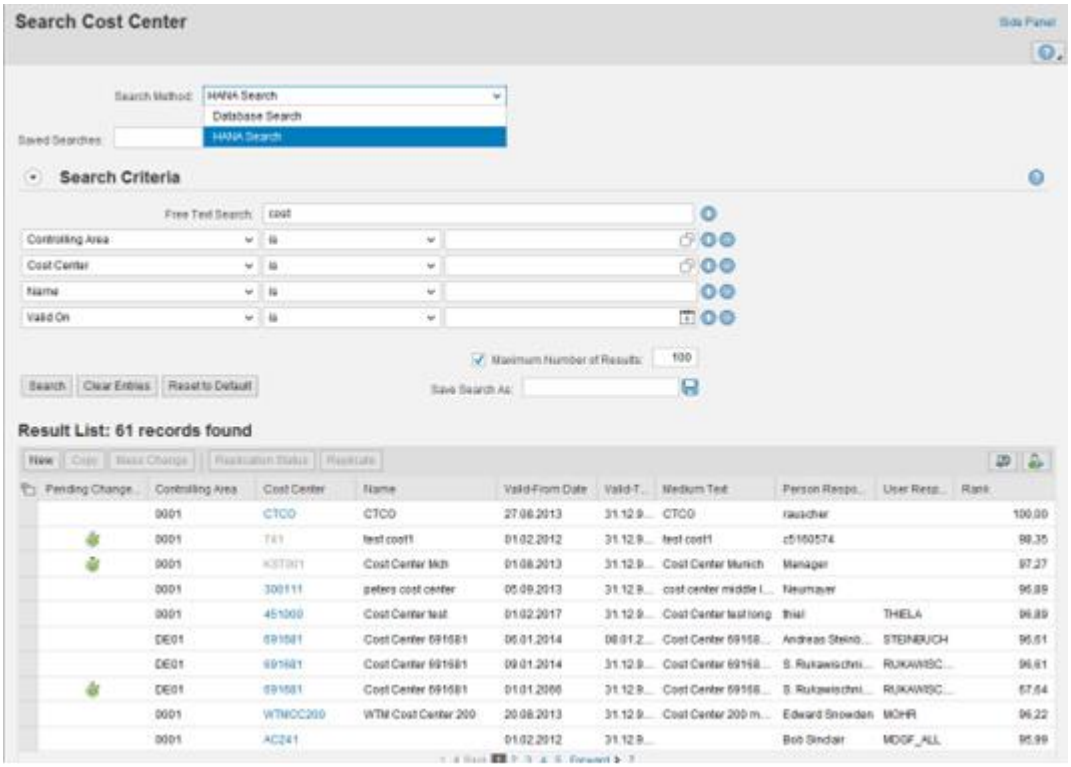
# 3 Testing

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***.



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

| Object Name | Communicator ***Configuration ID*** | 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 |



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| | | | |
|---|---|---|---|
| ***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** |



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# 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 Applicance 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 0G |
| | |
| 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) |



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