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How-To: Implement SAP HANA-based Search of an Access Class Interface for a Reuse Model

Applicable Releases:

From MDG 7.0 and from SAP S/4HANA 1511

Version 2.0

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Document History

| Document Version	Description
1.0	First official release of this guide (November 2013)
2.0	Layout update (September 2024)

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1. Overview

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 How-To Guide describes the solution to implement the access class interface for your reuse model so that the HANA-based search of master data can retrieve both active and inactive data.

2. ACCESS CLASS INTERFACE IMPLEMENTATION

The SAP HANA-based search enables you to search master data in the HANA database. Implementing the search requires completing the following steps:

1. Generate a HANA search view.
2. Configure the HANA search view to search the HANA database.
3. Ensure the access class implements the interface for the HANA-based search. For example, the access class for BP is CL_MDG_BS_BP_ACCESS_MASTER and the default interface for the HANA-based search is IF_USMD_PP_HANA_SEARCH. You can use the default interface as a reference for your implementation of the reuse scenario.
4. Ensure the interface search implements the following methods.

   - ADAPT_SEL_FIELDS: Adaptation of allowed selection attributes for Search View generation.

   - GET_REUSE_VIEW_CONTENT: Read reuse area attribute names and join conditions for the HANA search view.

   - MERGE_REUSE_AUTHORIZATION: Determine reuse area authorization for search.

   - GET_MAPPING_INFO: Mapping between data model and reuse data area.

   - ADAPT_WHERE_CLAUSE: Adapt the SELECT query WHERE clause for performing search.

   - ADAPT_RESULT_SET: Adapt reuse area search results to MDG data model structure.
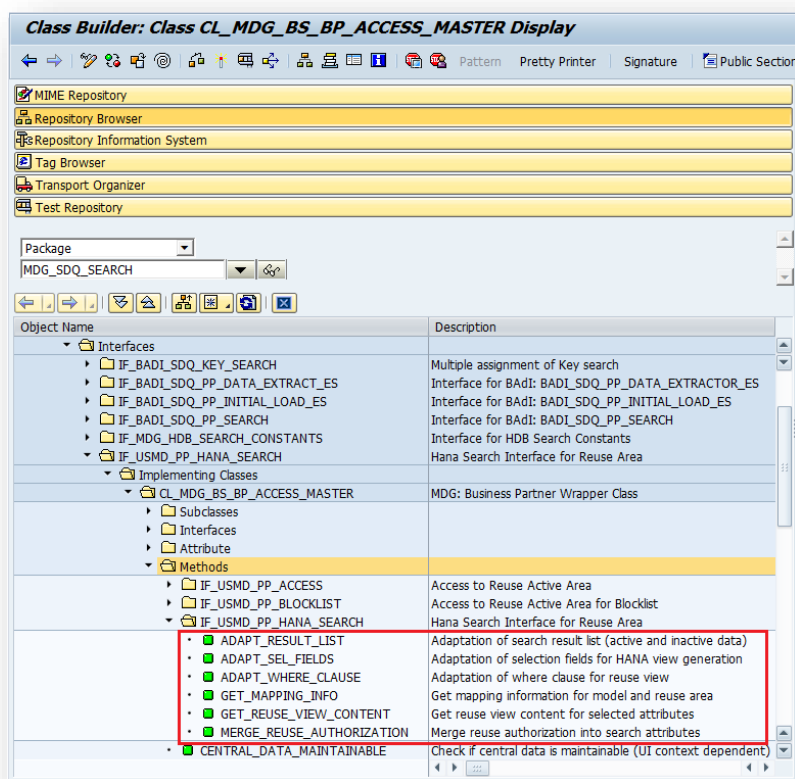
5. You can maintain the reuse area metadata information that for the above mentioned methods in the view cluster VC_HDB_PP_FMAP. You can update the view cluster to add the field and join information for the reuse entity. The system saves the updated data in the underlying tables of the view cluster (see screenshot below).
6. Run the transaction for View Cluster maintenance (SM34) to maintain the view cluster VC_HDB_PP_FMAP.

7. In the Join Attributes view for a BO type, you can update or insert the left tables and right tables with the cardinality, join operator, and join type.

8. Choose a row to add the information about the fields to be joined.

9. Double click the *Join Fields* view, and add the field names to be joined.

Display View "Join Fields": Overview

10. The information maintained in the view cluster `VC_HDB_PP_MAP` is stored in tables `MDGHDB_PP_FMAP`, `MDGHDB_PP_FJOIN`, and `MDGHDB_PP_TJOIN`. The methods of your reuse access class use the information in these tables at the time of view generation and while the search is being performed. The tables are described below:

- Table: `MDGHDB_PP_FMAP`
  This table contains the data model field names, reuse area field names, data element names, and the unique deviating field names. The deviating field names are unique names given to reuse fields to avoid name conflicts in cases where the same field names exist across tables in the view. The information in this table is read by the `GET_MAPPING_INFO` method to determine the mapping between the data model field names and reuse area field names and returns the information to the MDG HANA search application.

- Table `MDGHDB_PP_FJOIN`

  This table contains information on fields that participate in mapping or that are mapped between left and right tables. This information is used while generating the HANA view for the reuse data.

- Table `MDGHDB_PP_TJOIN`
This table contains the information about how the left and right tables are joined, the cardinality, and the join type. This information is used while generating the HANA view for the reuse data.

3. Additional Information

3.1. Further Reading

3.1.1. 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

3.1.2. SAP Roadmap Explorer

- Please see the roadmap for SAP Master Data Governance

3.1.3. 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

3.2. SAP Notes

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

Note	Description
3372801	Upgrade or Conversion for Master Data Governance, Central Governance
3043582	MDG Customer Connection 2020
3194967	MDG Customer Connection 2021 for S/4HANA 2022
3311039	MDG Customer Connection 2023
3428179	Master Data Governance: Continuous Influence
2479869	Usage of Lean Classification with SAP Master Data Governance
1619534	How to Create, Enhance and Adapt FPM Applications
1637249	MDG: Information for efficient message processing
2105467	MDG Performance
2561461	Scope of support for SAP Master Data Governance (MDG)
1637249	MDG: Information for efficient message processing