

How-To Guide: Enable Key Mapping for Service Master

Applies to

MDG EAM Solutions by Prometheus Group

Summary

Data that the MDG system replicates to target systems is always active data. MDG system takes the active data from the SAP ERP tables or from the generated tables depending on the option in use (reuse option or flex option).

MDG for EAM include standard implementations of the Data Replication Framework (DRF) that reads the data and sends the messages to the target system. The standard implementations support Key Mapping and Value Mapping.

This guide describes the necessary configuration steps for implementing Key Mapping. This guide explains the Key Mapping for Service Master. The same steps can be followed for other EAM objects.

You can perform the configuration tasks in Customizing for Master Data Governance under SAP Reference IMG Cross Application Components Processes and Tools for Enterprise Applications Master Data Governance .

- Additionally, you can use the following transactions: MDGIMG IMG Master Data Governance
- DRFIMG IMG Data Replication Framework
- IDMIMG IMG Key Mapping

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Created On: September 1, 2018

Version: 1.0



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Introduction

You can use this document to create mappings between object instances by connecting their object IDs.

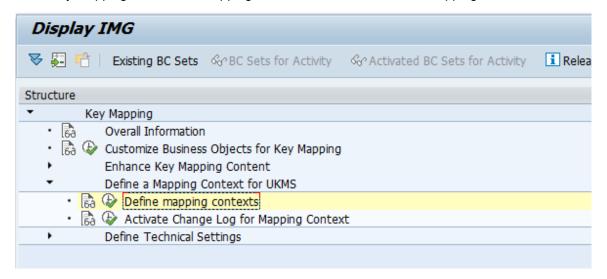
In business processes with several systems, each object instance requires one or more object IDs to ensure it can be identified and mapped to other object instances. During data replication, the object instance is replicated from a hub system to one or more client systems. In the process, each system can use its own logic to create object IDs.

Create UMKS mapping context

To generate UMKS tables for Key Mapping, mapping contexts need to be defined.

Transaction: IDMIMG

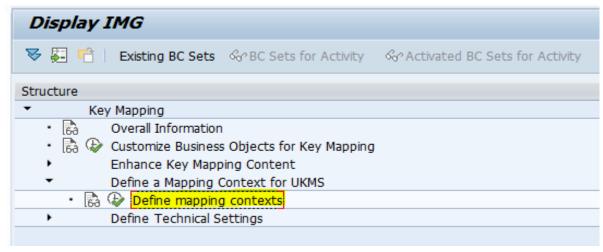
Path: Key Mapping → Define a Mapping Context for UKMS → Define mapping contexts.



Service Master

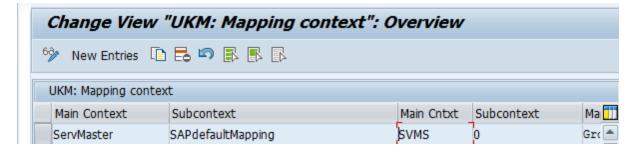
To define mapping contexts, use the following steps:

1. Create context for Service Master



2. For Service Master create context as "ServMaster".





The system generates a set of tables (six tables) based on standard tables for each Main Context.

Note: Do not change the names of generated tables.

List of tables generated for context Service Master:

- UKMDB AGCSVMS0
- UKMDB KEYSVMS0
- UKMDB MGDSVMS0
- UKMDB MGPSVMS0
- UKMDB SCHSVMS0
- UKMDB_V78SVMS0

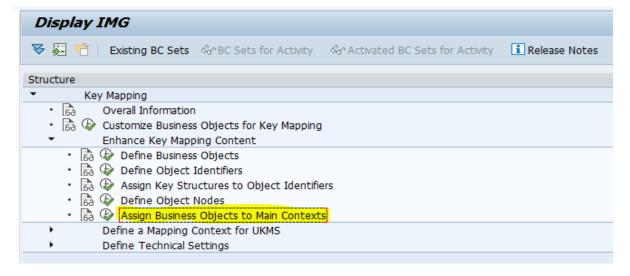
The system requires confirmation of tables to be copied. Save the generated tables to the package MDG_BS_ID_MATCHING_UKMS_DB.

Assign Business Objects to Main Contexts

For Key Mapping, you must assign each Business Object Type to a Main Context

Transaction: IDMIMG

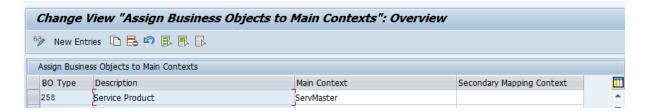
Path: Key Mapping → Enhance Key Mapping Content → Assign Business Objects to Main Contexts



Service Master

Mapping Contexts created in previous step need to be assigned to Business Object Types.



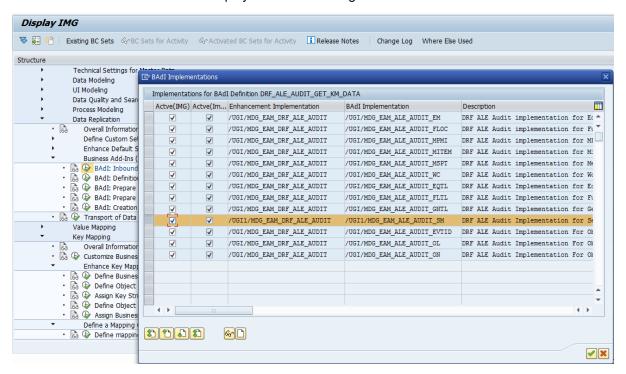


BAdI: Inbound Processing of ALE Audit Messages

Go to Transaction MDGIMG.

Path: Data Replication → Business Add-Ins (BAdIs) → BAdI: Inbound Processing of ALE Audit Messages

Check BADI should be Active as displayed in the following screen.



Standard settings

For more information about the standard settings (filters, single or multiple uses), see the Enhancement Spot Element Definitions tab in the BAdI Builder (transaction code SE18).

Activities

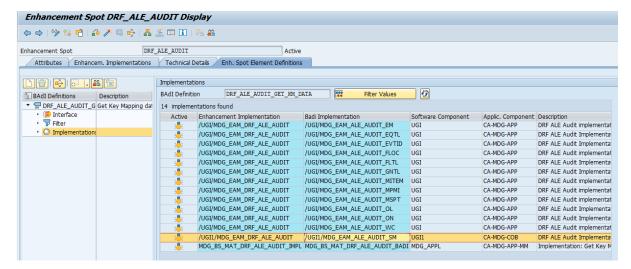
For information about implementing BAdIs as part of the Enhancement Concept, see SAP Library for SAP NetWeaver under BAdIs - Embedding in the Enhancement Framework.

Implement the DRF_ALE_AUDIT enhancement spot

Implement the DRF_ALE_AUDIT Enhancement spot with Enhancement Implementation

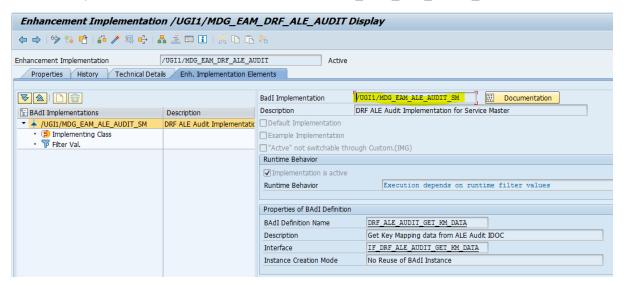
- /UGI1/MDG_EAM_DRF_ALE_AUDIT and with BAdI implementation
- /UGI1/MDG_EAM_ALE_AUDIT_SM as displayed in the following screen





BAdI Implementation

The BAdI implementation for Service Maser is /UGI1/MDG_EAM_ALE_AUDIT_SM.

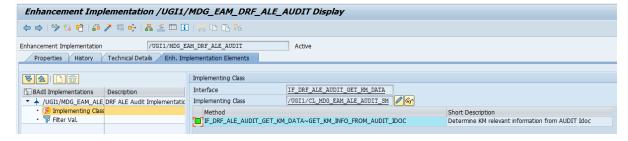


Implementation classes and Filter Values

Service Master

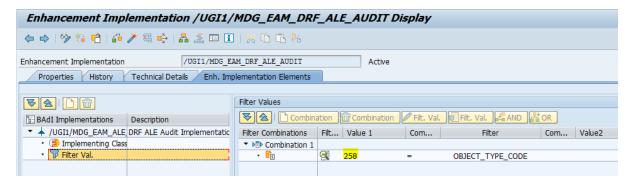
The Implementing class and Filter values for Service Master are as below.

Implementing class: /UGI1/CL MDG EAM ALE AUDIT SM



Filter Values: OBJECT_TYPE_CODE = 258.



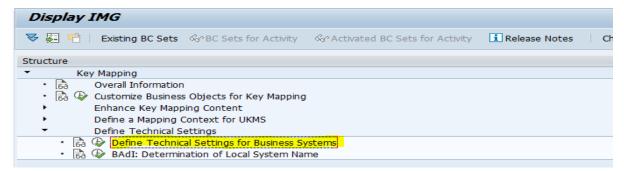


Define Technical settings

You must complete this activity if you want to replicate data using a replication model within the data replication framework (DRF), or if you want to customize business systems for Key Mapping or Value Mapping.

Transaction: IDMIMG

Path: Key Mapping → Define Technical Settings → Define Technical Settings for Business Systems

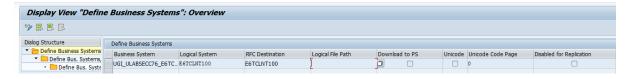


In this customizing activity, the following tasks are defined:

- Define Business Systems
- Define Business Systems, Business Object Types
- Define Business Systems, Business Object Types, Communication Channel

Define Business Systems

In this step, define the business systems and RFC destination for the business system.

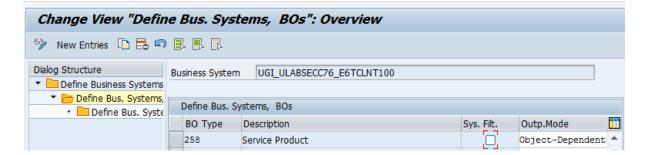


Define Business Systems, Business Object Types

Service Master

In this step add Business Object types 258 to be replicated to business system.

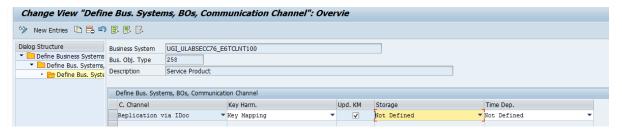




Define Business Systems, Business Object Types, Communication Channel

Service Master

In this step, you define how Business Objects type should be replicated and Key Handling.



Relationship between Object type and BOR Object

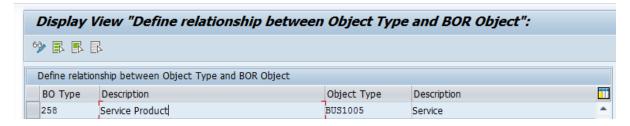
In order to process ALE ADUIT message successfully, OTC to BOR relationship must exist. Check whether the below entries are available or not. If not maintain the entries.

Prerequisite Note

<u>2406058</u>: EAM relevant relationships between Object Type and BOR Object

Transaction Code: SM30

Table/View name: MDGV_OTC_BOR



Prerequisites for Key Mapped Value updation in HUB system

Set up background job for report RBDSTATE in client system



Prerequisites for Classification IDocs

• Set up background job for report /UGI/EAM_IDOC_REP and RBDMANI2 in hub system

Troubleshooting Key Mapping

Service Master

Navigate to NWBC and select the respective role. Go to Data Exchange \rightarrow Data Replication \rightarrow Edit Key Mapping.

Alternatively, you can use the backend transaction with the transaction code MDG_KM_MAINTAIN

- Select hub system as Business system for DRF.
- Select client system as Business system for DIF.
- Enter object id value without leading zeros.