PROMETHEUS GROUP

How-To Guide: Enable Key Mapping for EAM Objects

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 EAM Objects.

You can perform most 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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Company: Prometheus Group

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Table of Contents

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.

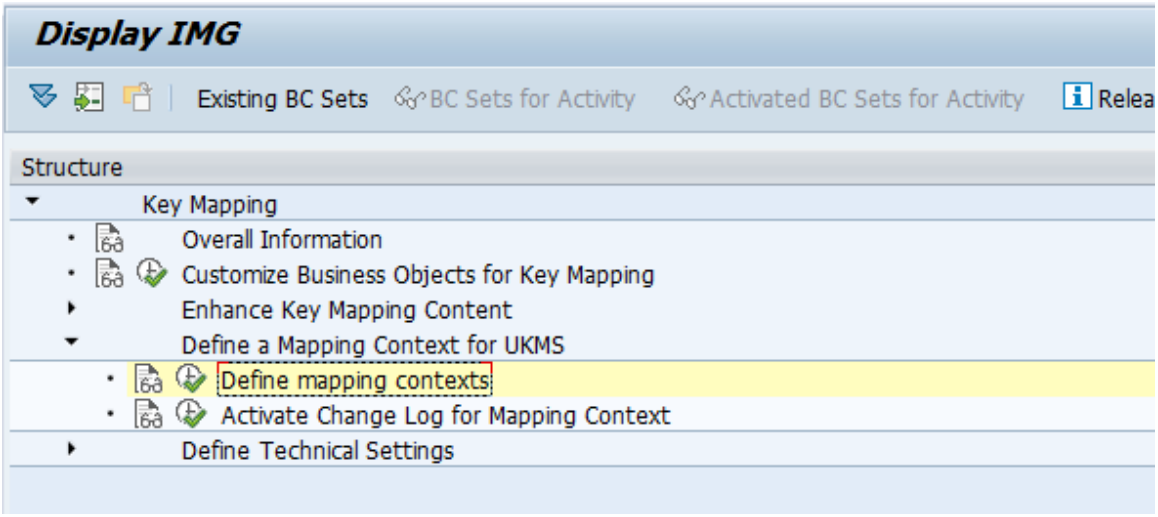
- Functional Location must always be key mapped if Alternative Labeling is Active.
- Maintenance Item must always be key mapped.

Create UMKS mapping context

To generate UMKS tables for Key Mapping, mapping context needs to be defined.

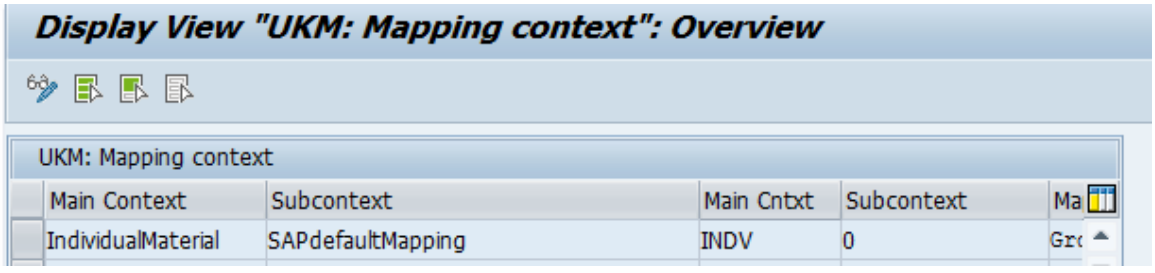
Transaction: IDMIMG

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



Equipment

For Equipment, create context as “IndividualMaterial”



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.

The following list of tables are generated for the context “IndividualMaterial”:

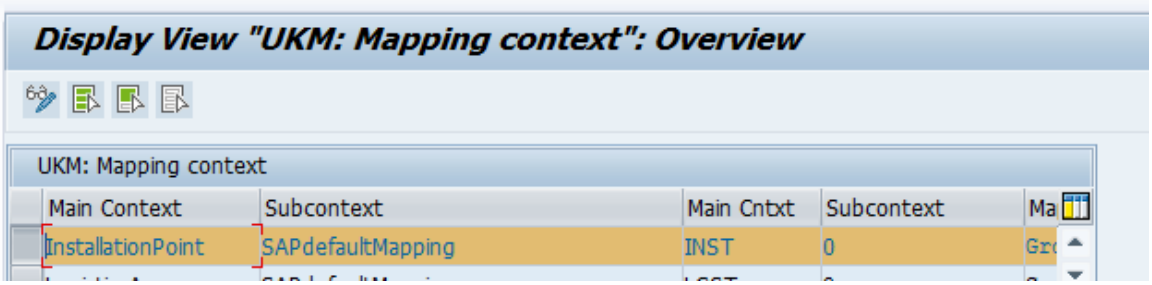
- UKMDB_AGCINDV0 UKM: Key Agency
- UKMDB_KEYINDV0 UKM: Key

- UKMDB_MGDINDV0 UKM: Negative Mapping Groups
- UKMDB_MGPINDV0 UKM: Positive Mapping Groups
- UKMDB_SCHINDV0 UKM: Key Schema
- UKMDB_V78INDV0 UKM: Value Table

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

Functional Location

For Functional Location create context as “InstallationPoint”



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

Note: The names of generated tables should not be changed.

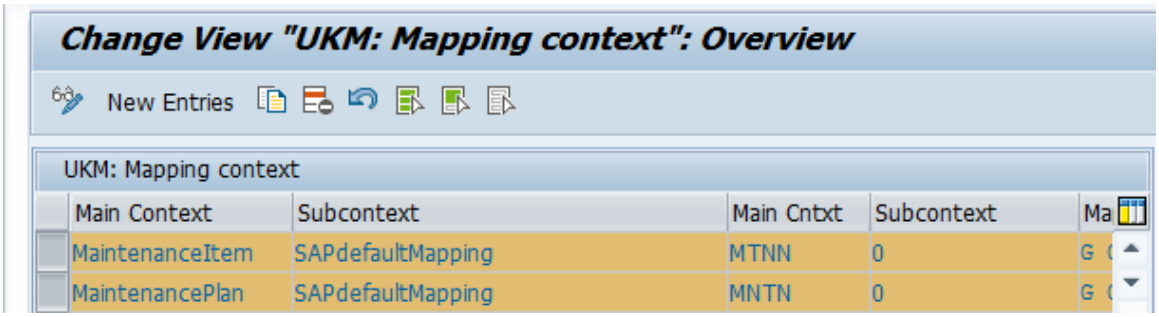
The following list of tables are generated for context Installation Point:

- UKMDB_AGCINST0 UKM: Key Agency
- UKMDB_KEYINST0 UKM: Key
- UKMDB_MGDINST0 UKM: Negative Mapping Groups
- UKMDB_MGPINST0 UKM: Positive Mapping Groups
- UKMDB_SCHINST0 UKM: Key Schema
- UKMDB_V78INST0 UKM: Value Table

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

Maintenance Plan and Item

For Maintenance plan, create context as “MaintenancePlan” and for Item “MaintenanceItem”



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.

The following list of tables are generated for context Maintenance Plan:

- UKMDB_AGCMNTN0 UKM: Key agency
- UKMDB_KEYMNTN0 UKM: Key
- UKMDB_MGDMNTN0 UKM: Negative Mapping Groups
- UKMDB_MGPMNTN0 UKM: Positive mapping groups
- UKMDB_SCHMNTN0 UKM: Key schema
- UKMDB_V78MNTN0 UKM: Value Table

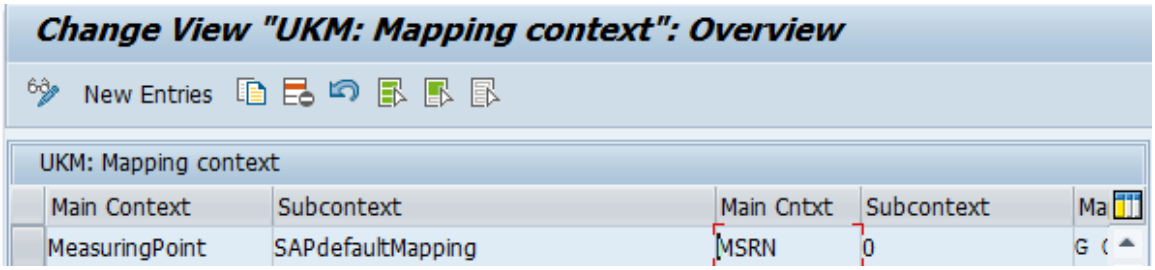
The following list of tables are generated for context Maintenance Item:

- UKMDB_AGCMTNN0 UKM: Key agency
- UKMDB_KEYMTNN0 UKM: Key
- UKMDB_MGDMTNN0 UKM: Negative Mapping Groups
- UKMDB_MGPMTNN0 UKM: Positive mapping groups
- UKMDB_SCHMTNN0 UKM: Key schema
- UKMDB_V78MTNN0 UKM: Value Table

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

Measuring Point

For Measuring Point create context as “MeasuringPoint”



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.

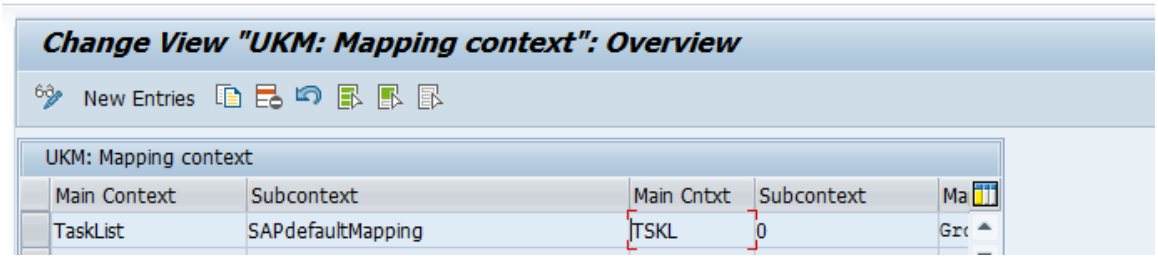
The following list of tables are generated for context Installation Point:

- UKMDB_AGCMSRN0 UKM: Key agency
- UKMDB_KEYMSRN0 UKM: Key
- UKMDB_MGDMSRN0 UKM: Negative Mapping Groups
- UKMDB_MGPMSRN0 UKM: Positive mapping groups
- UKMDB_SCHMSRN0 UKM: Key schema
- UKMDB_V78MSRN0 UKM: Value Table

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

Task List

For Task List create context as “TaskList”



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.

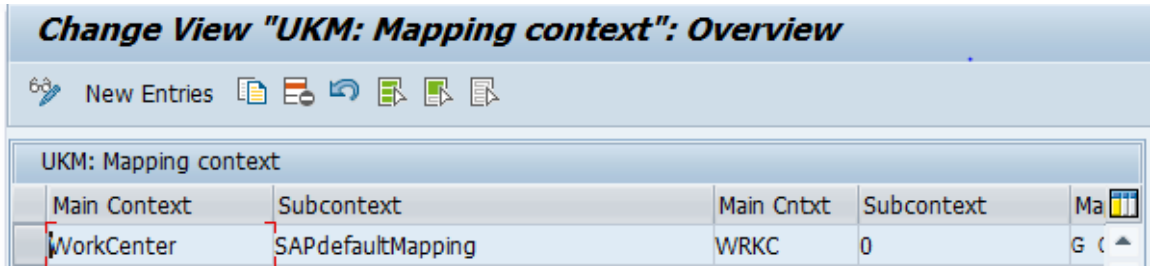
The following list of tables are generated for context Task List:

- UKMDB_AGCTSKL0 UKM: Key agency
- UKMDB_KEYTSKL0 UKM: Key
- UKMDB_MGDTSKL0 UKM: Negative Mapping Groups
- UKMDB_MGPTSKL0 UKM: Positive mapping groups
- UKMDB_SCHTSKL0 UKM: Key schema
- UKMDB_V78TSKL0 UKM: Value Table

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

Work Center

For Work Center create context as “WorkCenter”



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.

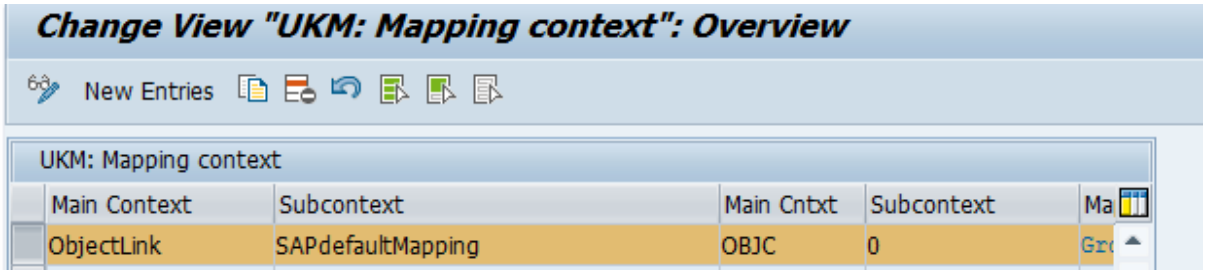
The following list of tables are generated for context Installation Point:

- UKMDB_AGCWRKC0 UKM: Key agency
- UKMDB_KEYWRKC0 UKM: Key
- UKMDB_MGDWRKC0 UKM: Negative Mapping Groups
- UKMDB_MGPWRKC0 UKM: Positive mapping groups
- UKMDB_SCHWRKC0 UKM: Key schema
- UKMDB_V78WRKC0 UKM: Value Table

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

Object Links

For Object Links, create context as “ObjectLink”.



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.

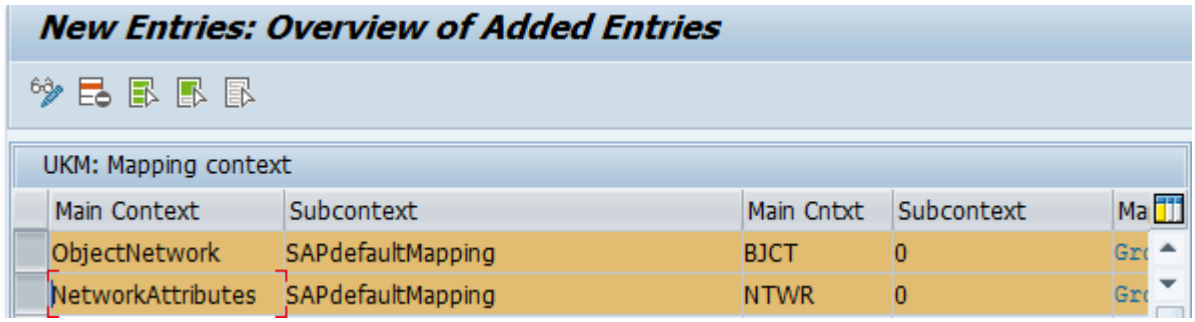
The following list of tables are generated for context Object Link:

- UKMDB_AGCOBJC0 UKM: Key agency
- UKMDB_KEYOBJC0 UKM: Key
- UKMDB_MGDOBJC0 UKM: Negative Mapping Groups
- UKMDB_MGPOBJC0 UKM: Positive mapping groups
- UKMDB_SCHOBJC0 UKM: Key schema
- UKMDB_V78OBJC0 UKM: Value Table

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

Object Networks and Attributes

For Object Network, create context as “ObjectNetwork” and for Attributes “NetworkAttributes”



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.

The following list of tables are generated for context Object Networks:

- UKMDB_AGCBJCT0 UKM: Key agency
- UKMDB_KEYBJCT0 UKM: Key
- UKMDB_MGDBJCT0 UKM: Negative Mapping Groups
- UKMDB_MGPBJCT0 UKM: Positive mapping groups
- UKMDB_SCHBJCT0 UKM: Key schema
- UKMDB_V78BJCT0 UKM: Value Table

The following list of tables are generated for context Network Attributes:

- UKMDB_AGCNTWR0 UKM: Key agency
- UKMDB_KEYNTWR0 UKM: Key
- UKMDB_MGDNTWR0 UKM: Negative Mapping Groups
- UKMDB_MGPNTWR0 UKM: Positive mapping groups
- UKMDB_SCHNTWR0 UKM: Key schema
- UKMDB_V78NTWR0 UKM: Value Table

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

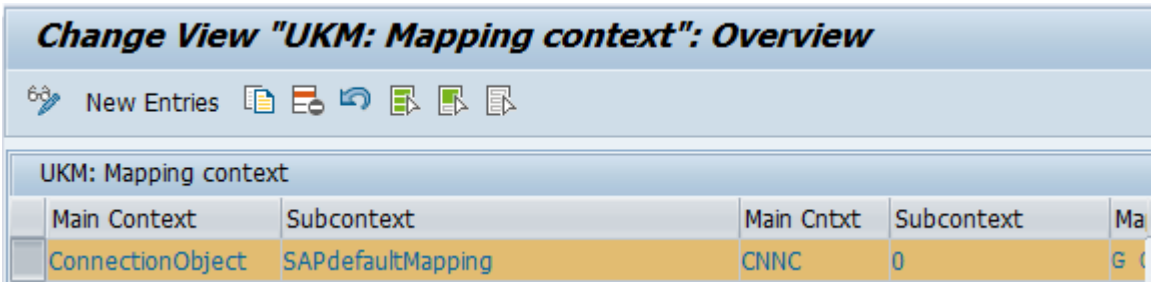
IS-U Industry Solution (optional)

The following objects are discussed in the section:

- Connection Object
- Device Location
- Device

Connection Object

For Connection Object create context as “ConnectionObject”.



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.

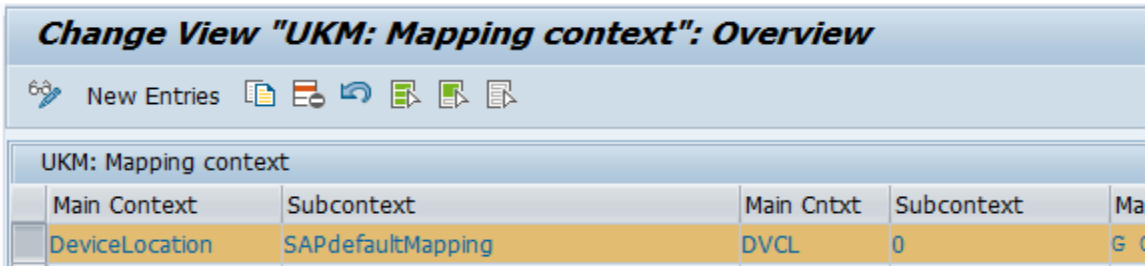
The following list of tables are generated for context Installation Point:

- UKMDB_AGCCNNC0 UKM: Key agency
- UKMDB_KEYCNNC0 UKM: Key
- UKMDB_MGDCNNC0 UKM: Negative Mapping Groups
- UKMDB_MGPCNNC0 UKM: Positive mapping groups
- UKMDB_SCHCNNC0 UKM: Key schema
  UKMDB_V78CNNC0 UKM: Value Table

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

Device Location

For Connection Object create context as “DeviceLocation”.



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.

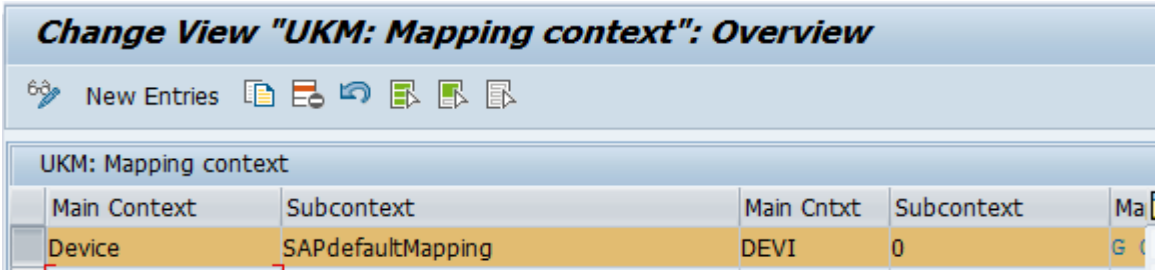
The following list of tables are generated for context Installation Point:

- UKMDB_AGCDVCL0 UKM: Key agency
- UKMDB_KEYDVCL0 UKM: Key
- UKMDB_MGDDVCL0 UKM: Negative Mapping Groups
- UKMDB_MGPDVCL0 UKM: Positive mapping groups
- UKMDB_SCHDVCL0 UKM: Key schema
- UKMDB_V78DVCL0 UKM: Value Table

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

Device

For Connection Object create context as “Device”.



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.

The following list of tables are generated for context Installation Point:

- UKMDB_AGCDEVI0 UKM: Key agency
- UKMDB_KEYDEVI0 UKM: Key
- UKMDB_MGDDEVI0 UKM: Negative Mapping Groups
- UKMDB_MGPDEVI0 UKM: Positive mapping groups
- UKMDB_SCHDEVI0 UKM: Key schema
  UKMDB_V78DEVI0 UKM: Value Table

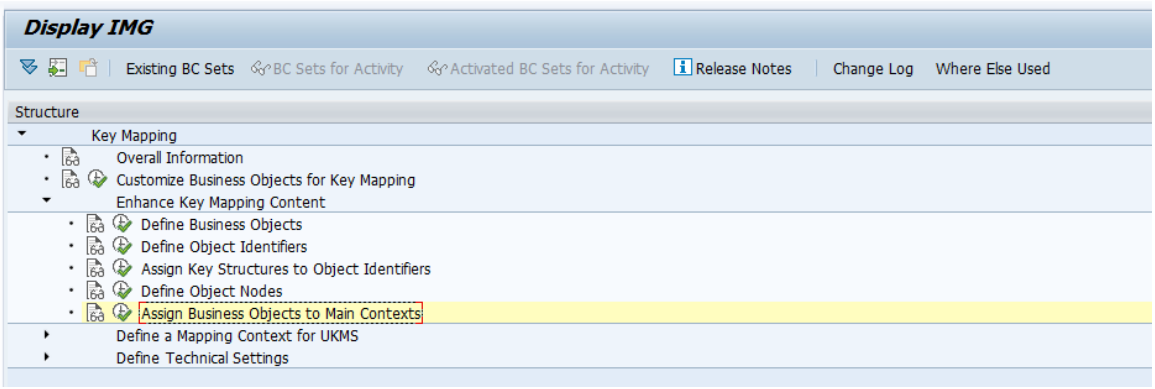
The system requires confirmation of tables to be copied. Save the generated tables to the package MDG_BS_ID_MATCHING_UKMS_DB.

Assign Business Objects to Main Contexts

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

Transaction: IDMIMG

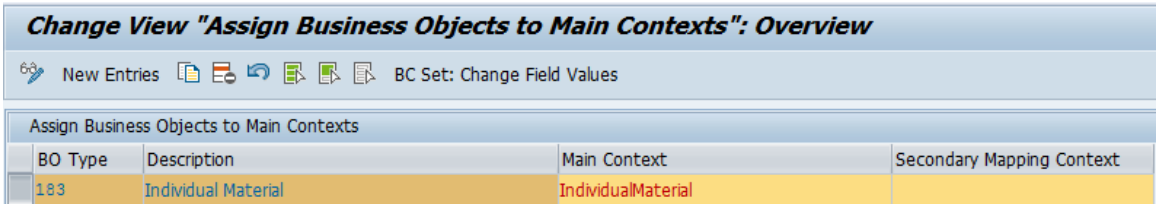
Path: Key Mapping > Enhance Key Mapping Content > Assign Business Objects to Main Contexts.



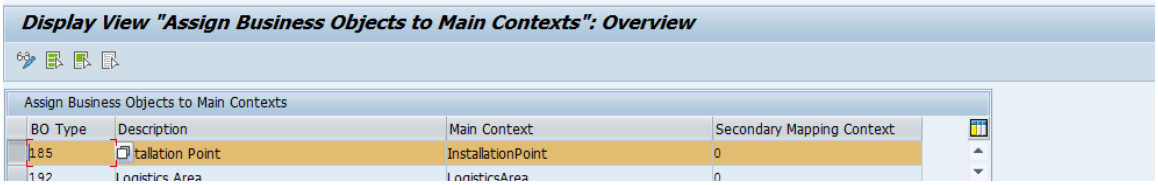
Mapping Contexts created in previous step needs to be assigned to Business Object Types.

The following screens displays the corresponding business objects that needs to be assigned with the Main Context.

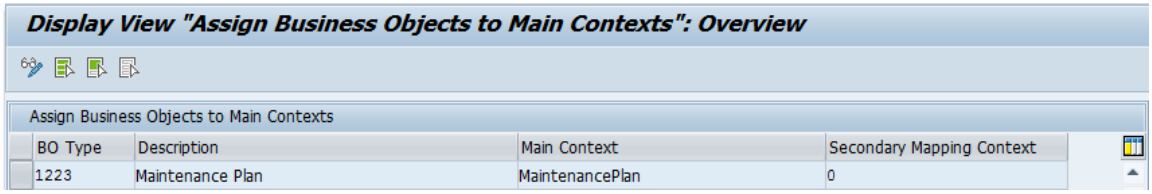
Equipment



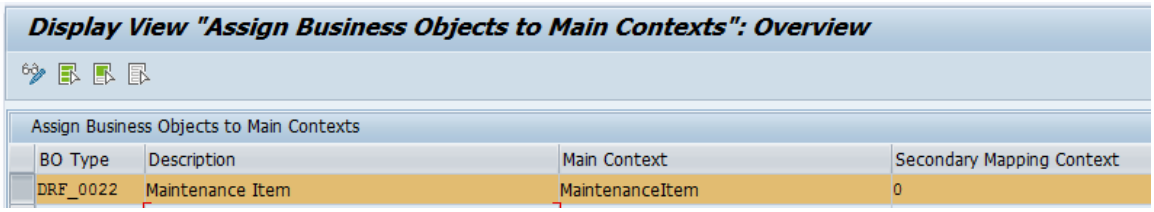
Functional Location



Maintenance Plan



Maintenance Item

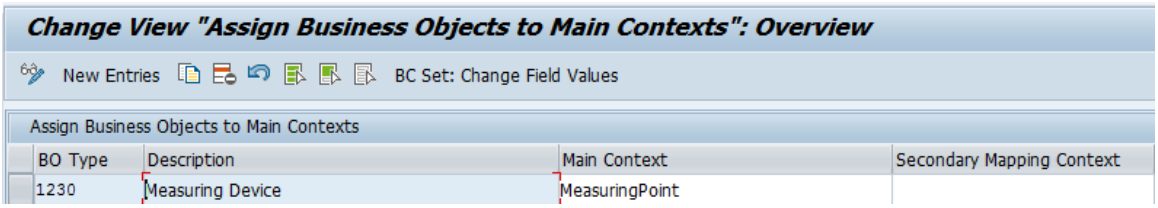


Display View "Assign Business Objects to Main Contexts": Overview

Assign Business Objects to Main Contexts

BO Type	Description	Main Context	Secondary Mapping Context
DRF_0022	Maintenance Item	MaintenanceItem	0

Measuring Point



Change View "Assign Business Objects to Main Contexts": Overview

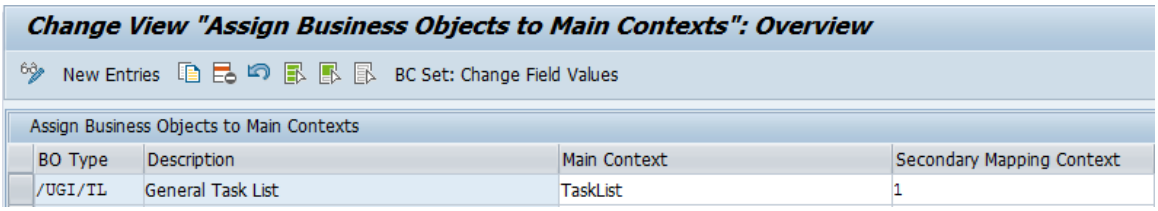
New Entries | BC Set: Change Field Values

Assign Business Objects to Main Contexts

BO Type	Description	Main Context	Secondary Mapping Context
1230	Measuring Device	MeasuringPoint	

Task List

General Task List



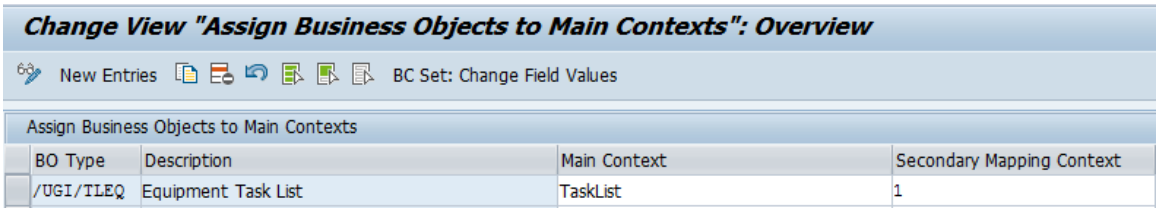
Change View "Assign Business Objects to Main Contexts": Overview

New Entries | BC Set: Change Field Values

Assign Business Objects to Main Contexts

BO Type	Description	Main Context	Secondary Mapping Context
/UGI/TL	General Task List	TaskList	1

Equipment Task List



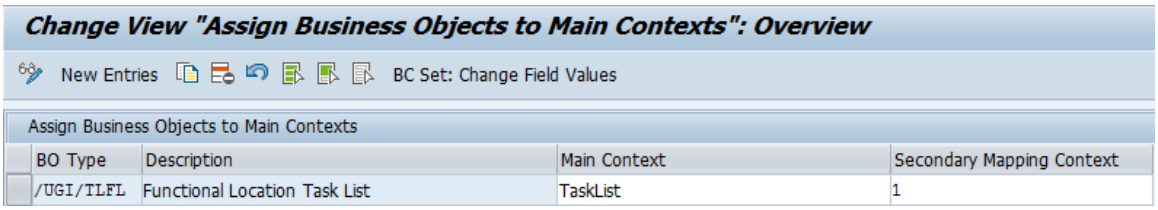
Change View "Assign Business Objects to Main Contexts": Overview

New Entries | BC Set: Change Field Values

Assign Business Objects to Main Contexts

BO Type	Description	Main Context	Secondary Mapping Context
/UGI/TLEQ	Equipment Task List	TaskList	1

Functional Location Task List



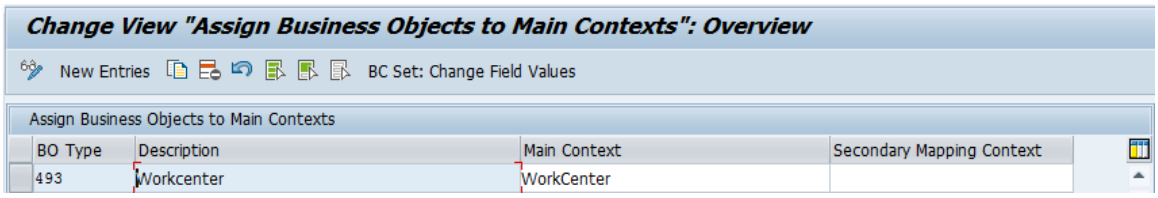
Change View "Assign Business Objects to Main Contexts": Overview

New Entries | BC Set: Change Field Values

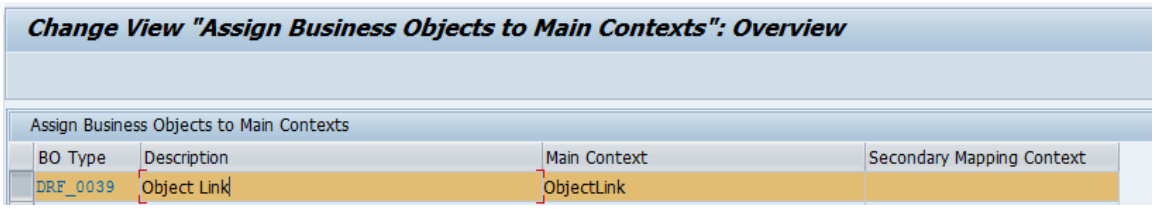
Assign Business Objects to Main Contexts

BO Type	Description	Main Context	Secondary Mapping Context
/UGI/TLFL	Functional Location Task List	TaskList	1

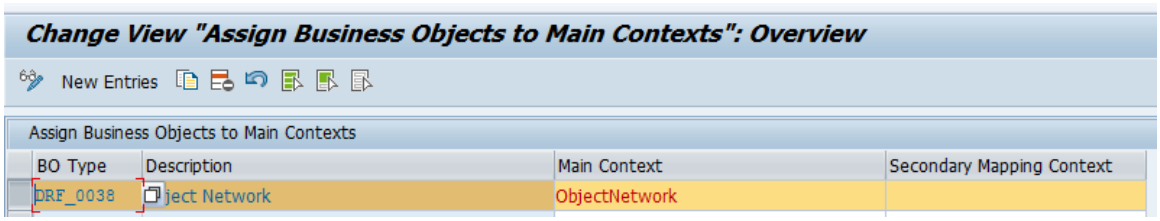
Work Center



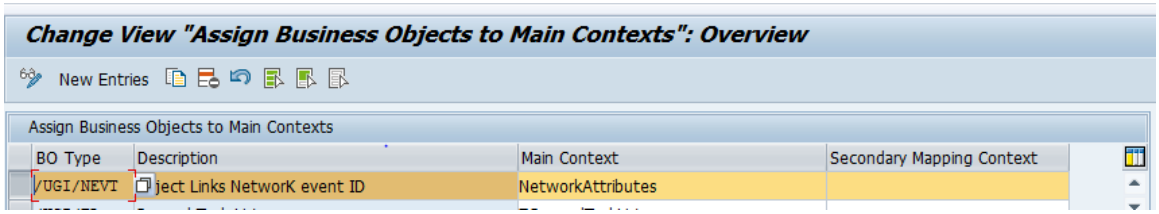
Object Links



Object Networks

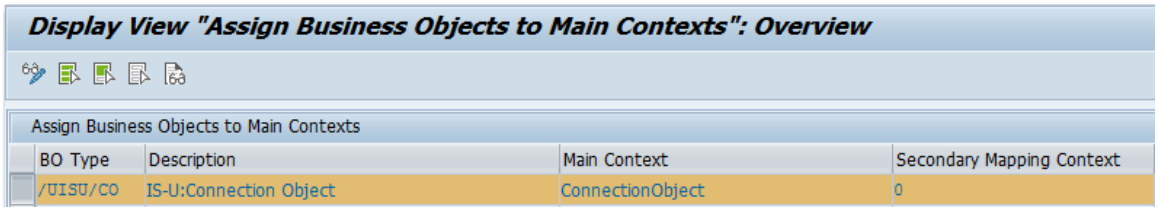


Network Attributes

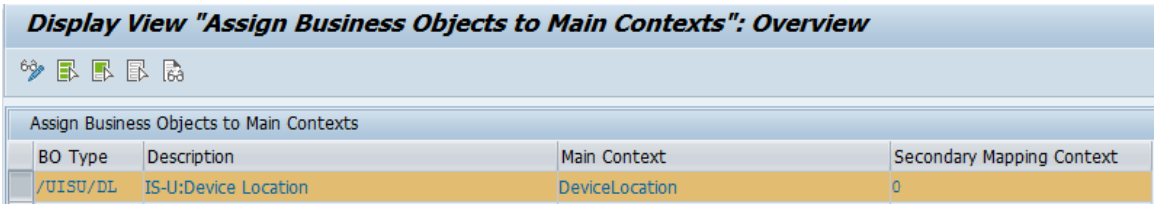


IS-U Industry Solutions (Optional)

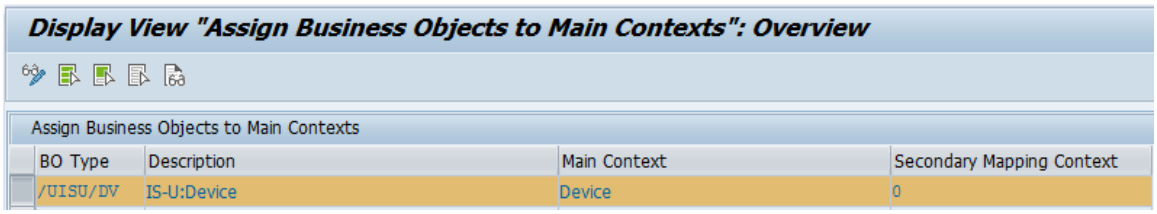
Connection Object



Device Location



Device



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

Tasks:

- Map the ALE object type from an IDoc to an object identifier type defined in the Key Mapping of a target system
- Convert the external format of an ALE object ID to an internal format for an MDG object ID

Implement this BAdI if you want to apply the Update Key Mapping setting in Customizing for Data Replication under Define Custom Settings for Data Replication -> Define Technical Settings for Business Systems.

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 (t-code SE18).

Activities

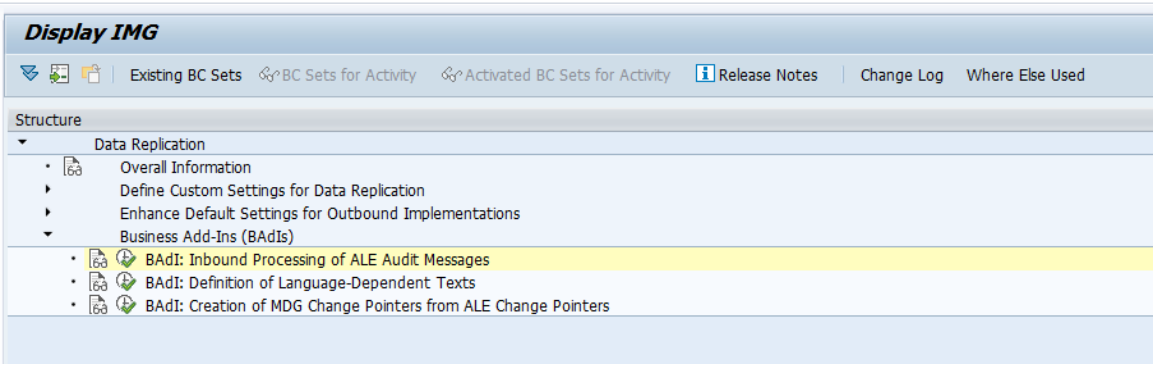
For information about implementing BAdIs as part of the Enhancement Concept, see SAP Library for SAP NetWeaver under BAdIs - Embedding in the Enhancement Framework.

Implement the DRF_ALE_AUDIT Enhancement Spot

Note: This Enhancement implementation is already provided as part of product in /UGI namespace. This section is for Information purpose only.

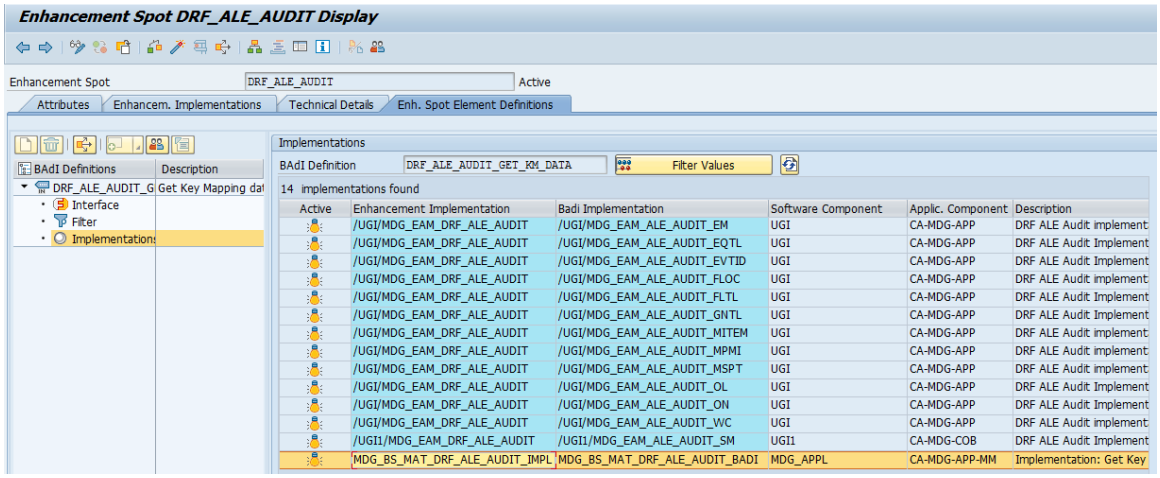
For Business System and BO Types 183,185,1223, DRF_0022, 1230, /UGI/TL, /UGI/TLEQ, /UGI/TLFL, 493, DRF_0038, DRF_0039, /UGI/NEVT, you must write Key Mapping information during ALE Audit processing.

This is possible if the DRF_ALE_AUDIT enhancement spot is implemented.



- Enhancement Spot: DRF_ALE_AUDIT
- BAdI Definition: DRF_ALE_AUDIT_GET_KM_DATA

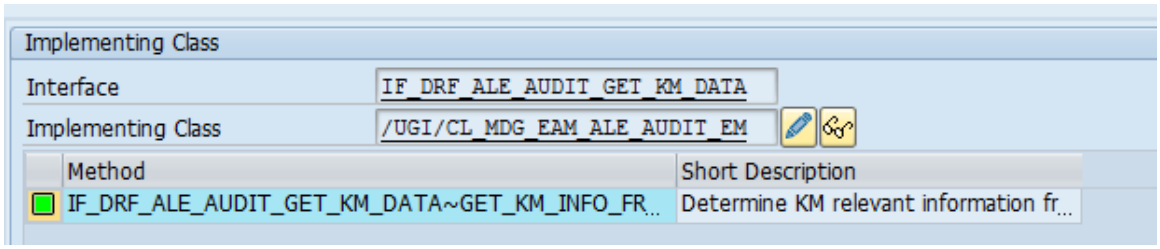
BAdI Implementation



Implementation Classes and Filter Values

This section provides the details of the BAdI Implementation, Implementing Classes and their corresponding Filter Values for specific objects.

Equipment



Class Builder Class /UGI/CL_MDG_EAM_ALE_AUDIT_EM Display

Pattern | Pretty Printer | Signature | Public Section

Method: IF_DRF_ALE_AUDIT_GET_KM_DATA~GET_KM_INFO_FROM_AUDIT_IDOC — Active

```
METHOD if_drf_ale_audit_get_km_data~get_km_info_from_audit_idoc.

  CALL FUNCTION 'CONVERSION_EXIT_ALPHA_OUTPUT'
    EXPORTING
      input  = iv_ale_obj_key
    IMPORTING
      output = ev_km_object_id.

  ev_oitc = if_mdg_idsc_const=>individual_material_id.
ENDMETHOD.
```

Filter Values

Combination | Combination | Filt. Val. | Filt. Val. | AND | OR

Filter Combinations	Filt...	Value 1	Com...	Filter	Com...	Value2
Combination 1						
		183	=	OBJECT_TYPE_CODE		

Functional Location

Implementing Class

Interface: IF_DRF_ALE_AUDIT_GET_KM_DATA

Implementing Class: /UGI/CL_MDG_EAM_ALE_AUDIT_FLOC

Method	Short Description
IF_DRF_ALE_AUDIT_GET_KM_DATA~GET_KM_INFO_FR...	Determine KM relevant information fr...

Class Builder Class /UGI/CL_MDG_EAM_ALE_AUDIT_FLOC Display

Pattern | Pretty Printer | Signature | Public Se

Method: IF_DRF_ALE_AUDIT_GET_KM_DATA~GET_KM_INFO_FROM_AUDIT_IDOC — Active

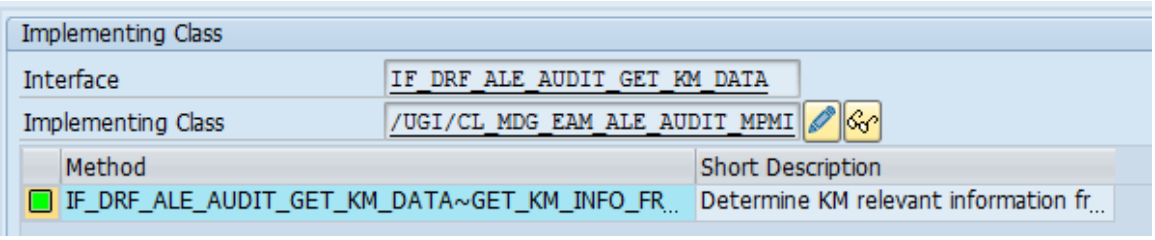
```
METHOD if_drf_ale_audit_get_km_data~get_km_info_from_audit_idoc.

  CALL FUNCTION 'CONVERSION_EXIT_ALPHA_OUTPUT'
    EXPORTING
      input  = iv_ale_obj_key
    IMPORTING
      output = ev_km_object_id.
  ev_oitc = if_mdg_idsc_const=>installation_point_id.

ENDMETHOD.
```

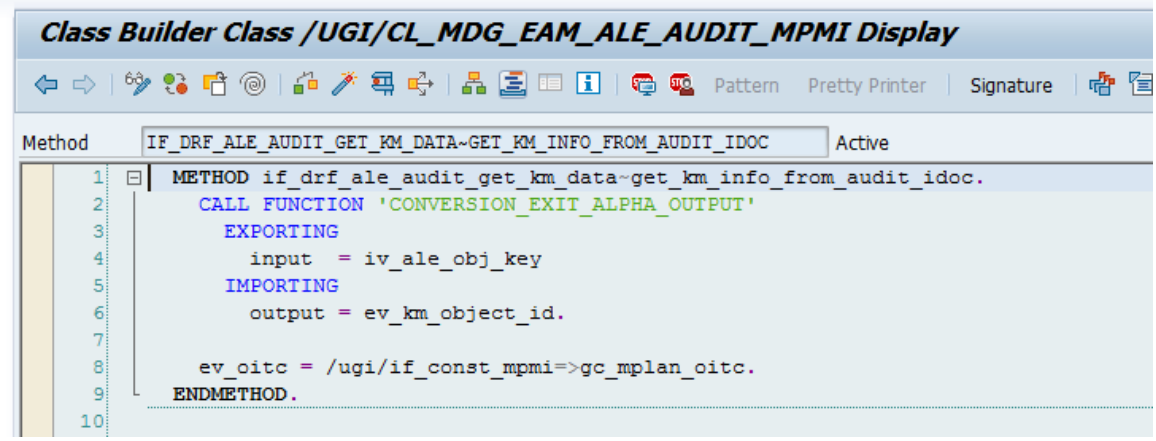
Filter Values

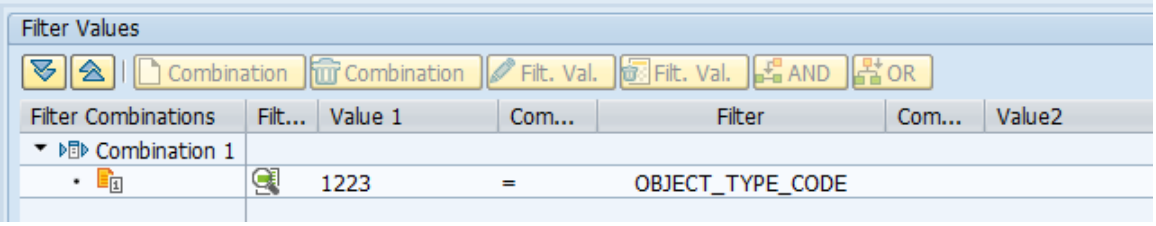
Combination | Combination | Filt. Val. | Filt. Val. | AND | OR

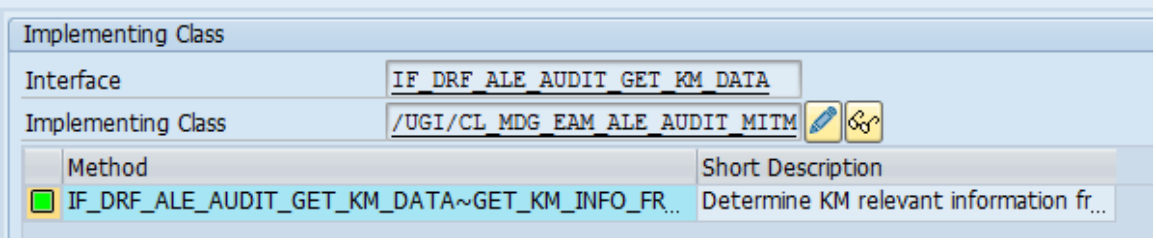
Filter Combinations	Filt...	Value 1	Com...	Filter	Com...	Value2
Combination 1						
		185	=	OBJECT_TYPE_CODE		

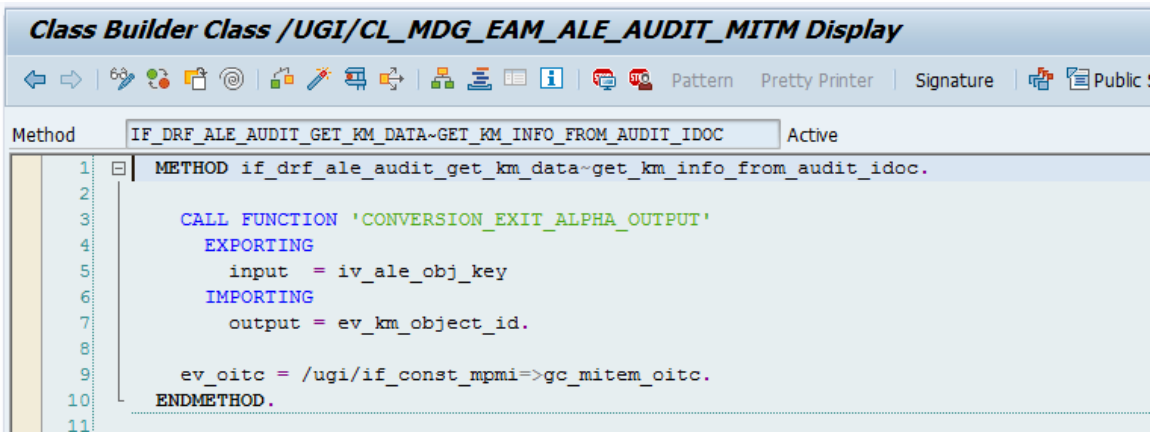
Maintenance Plan and Item

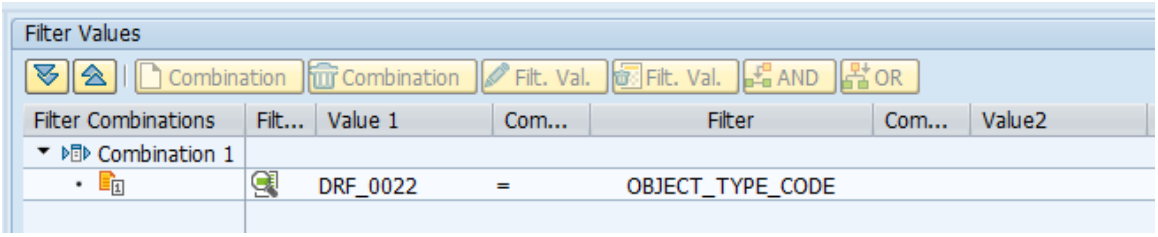




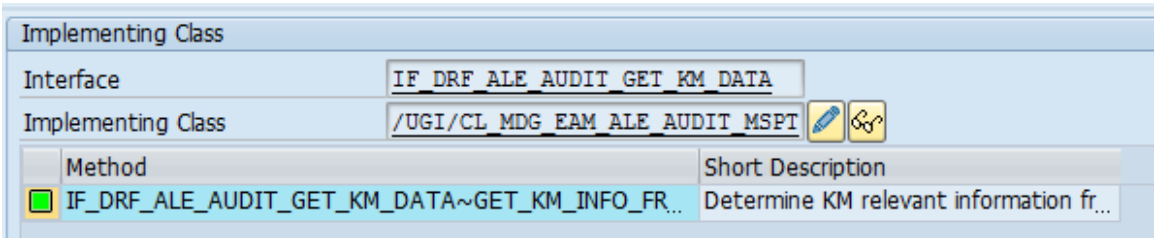


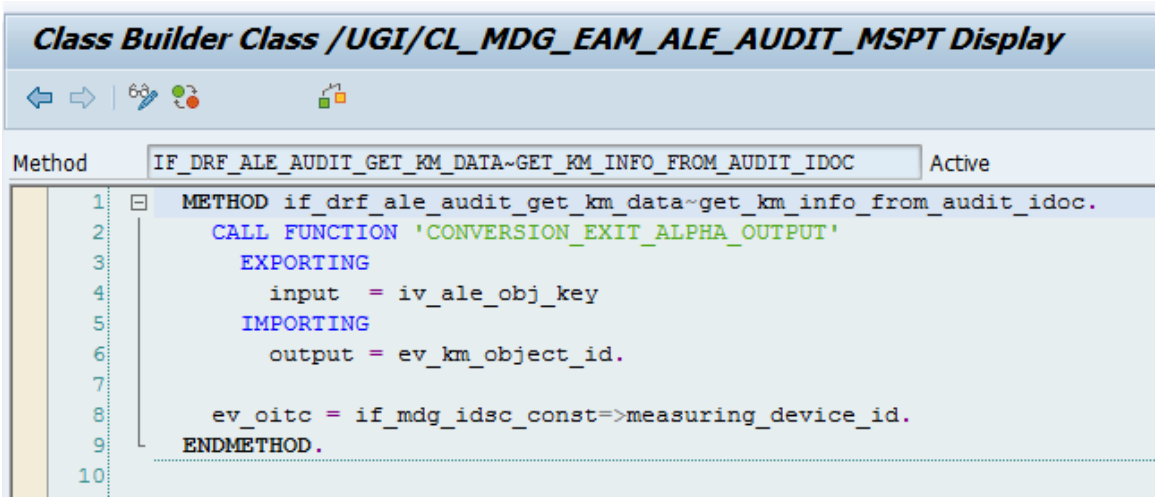


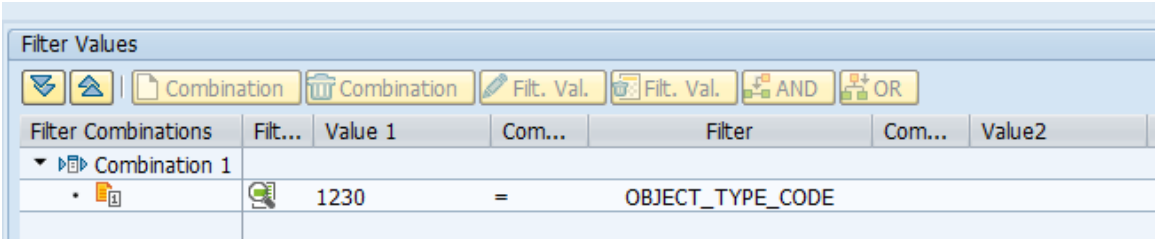




Measuring Point

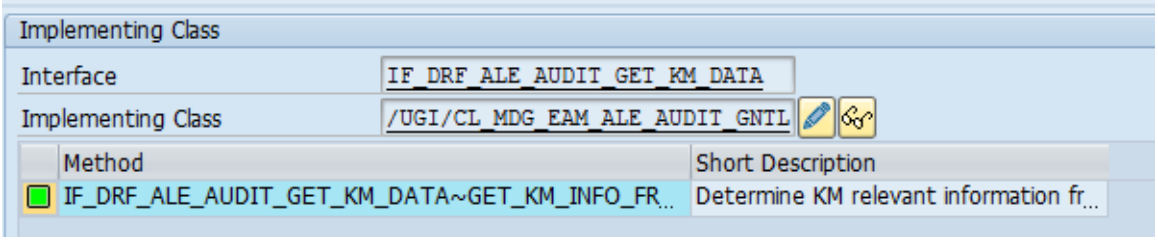


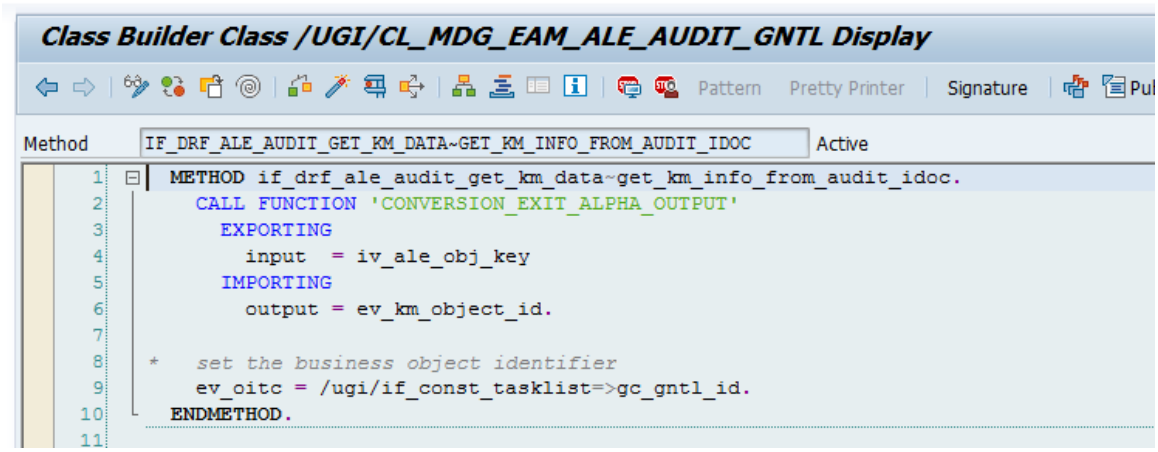


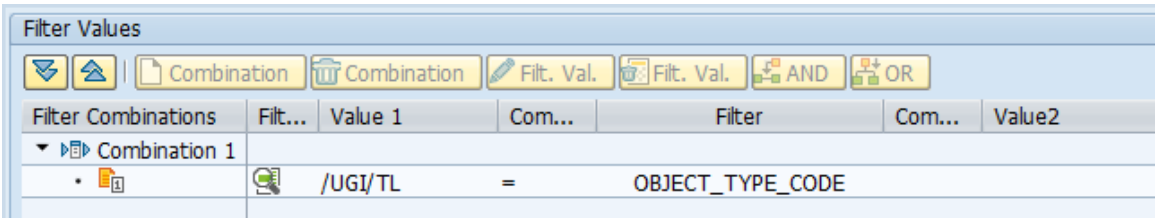


Task List

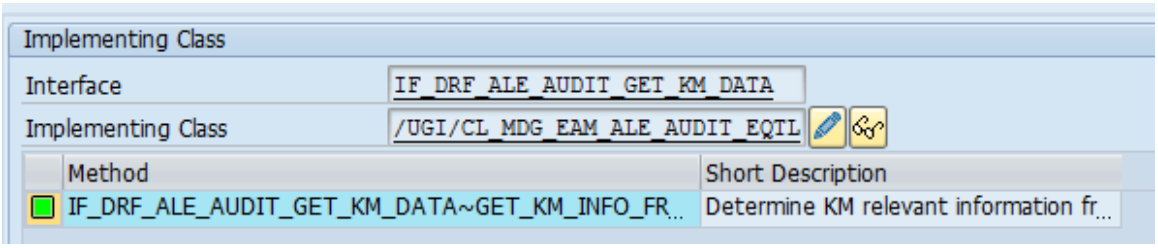
General Task list

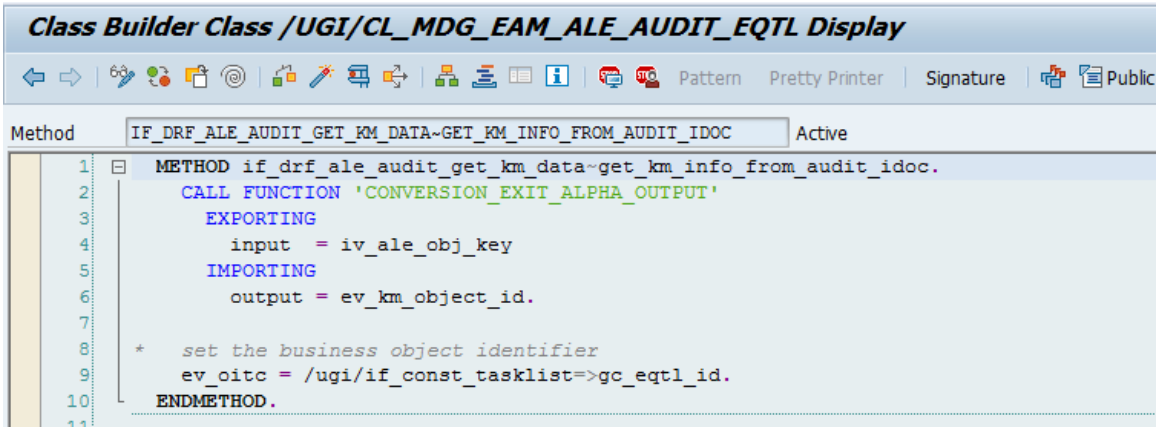


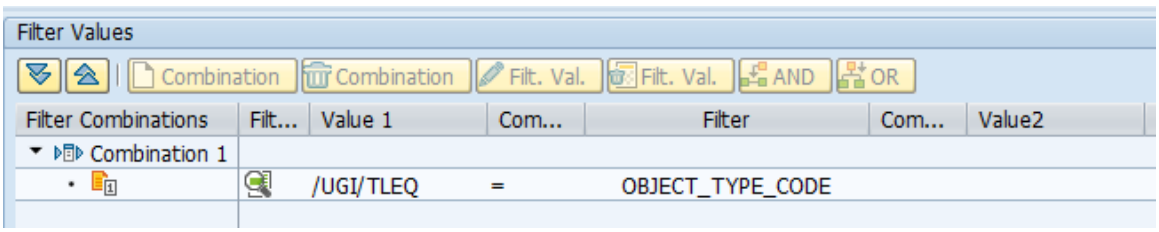




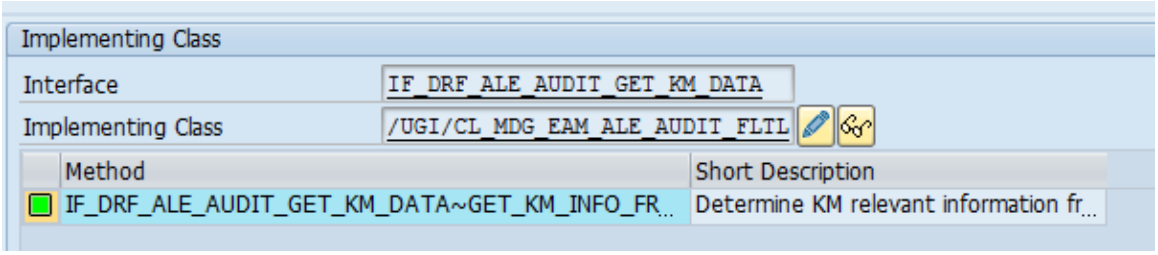
Equipment Task list

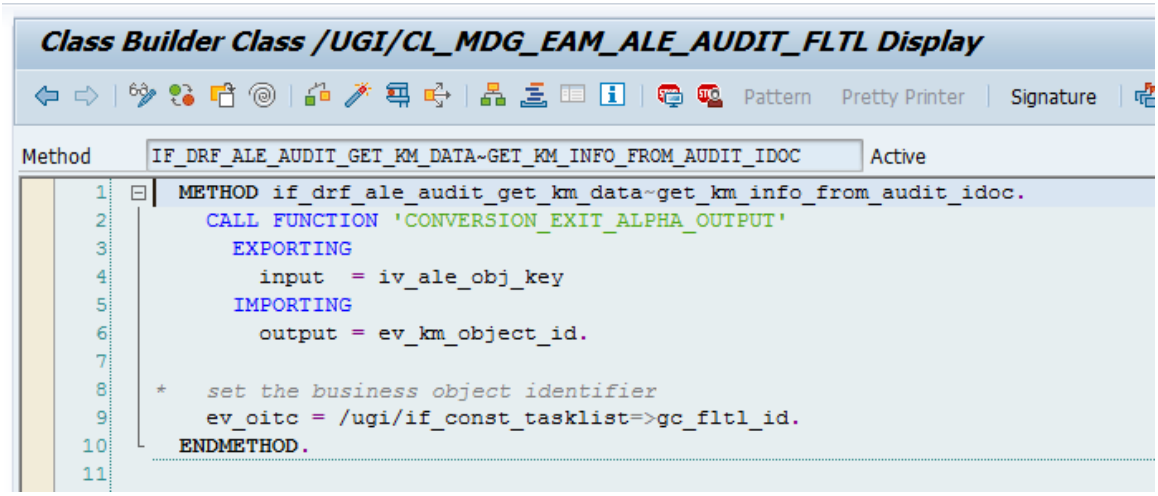


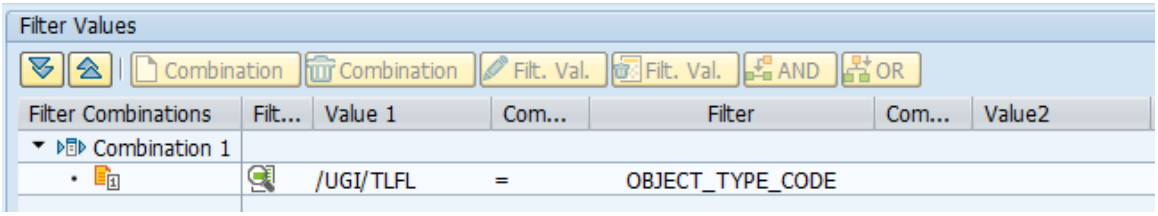




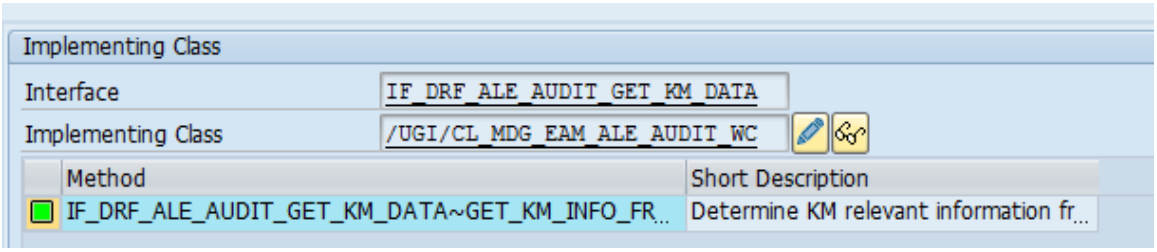
Functional Location Task List

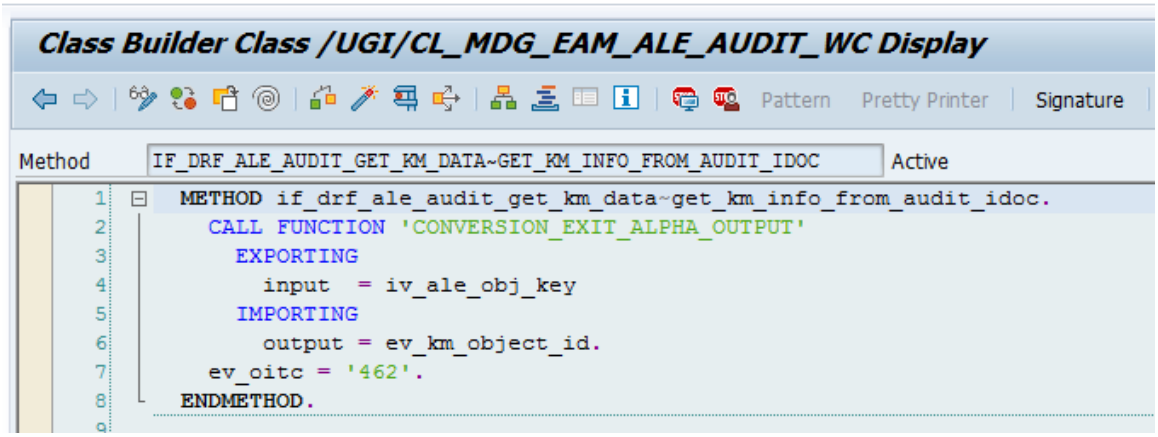


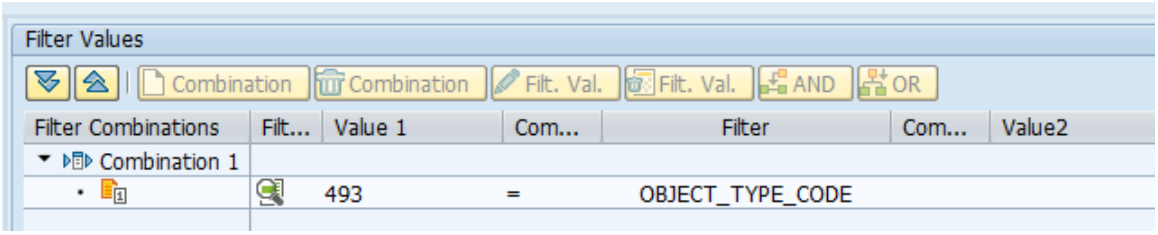




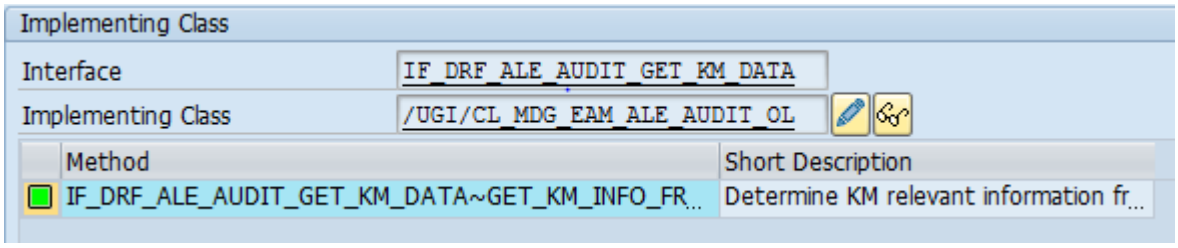
Work Center

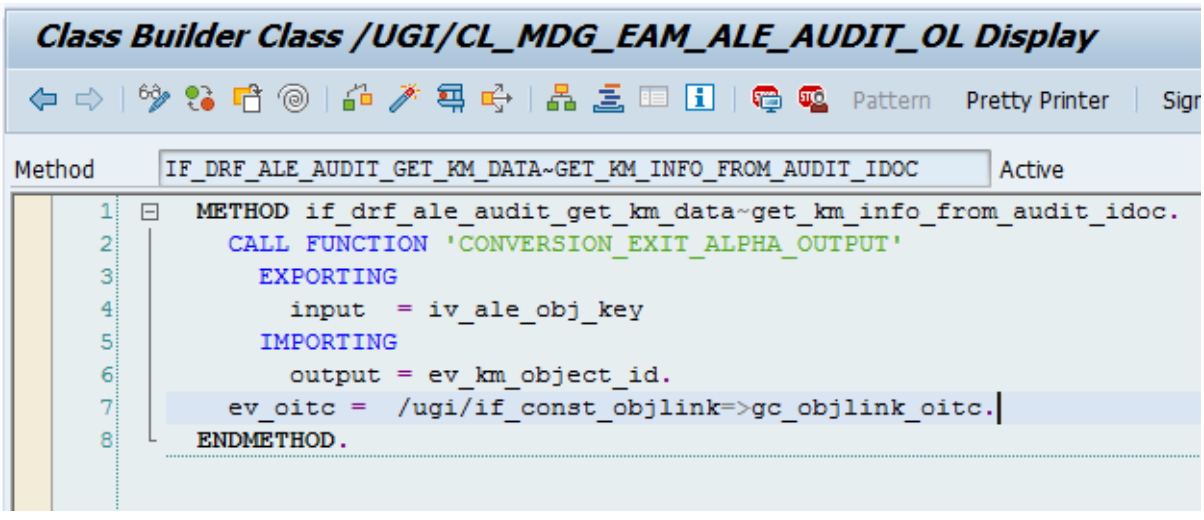


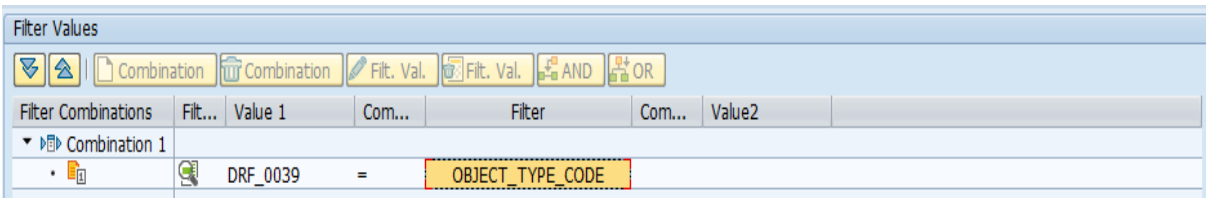




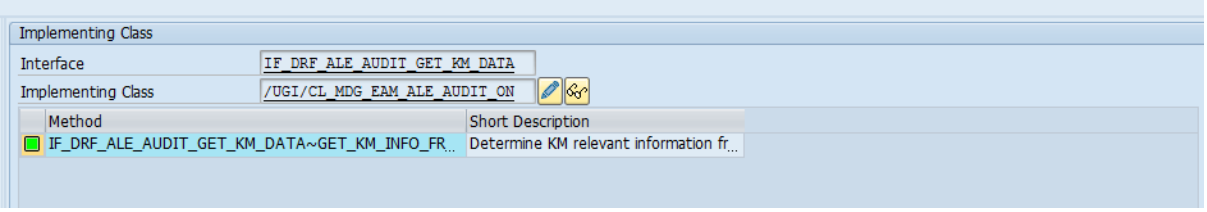
Object Links

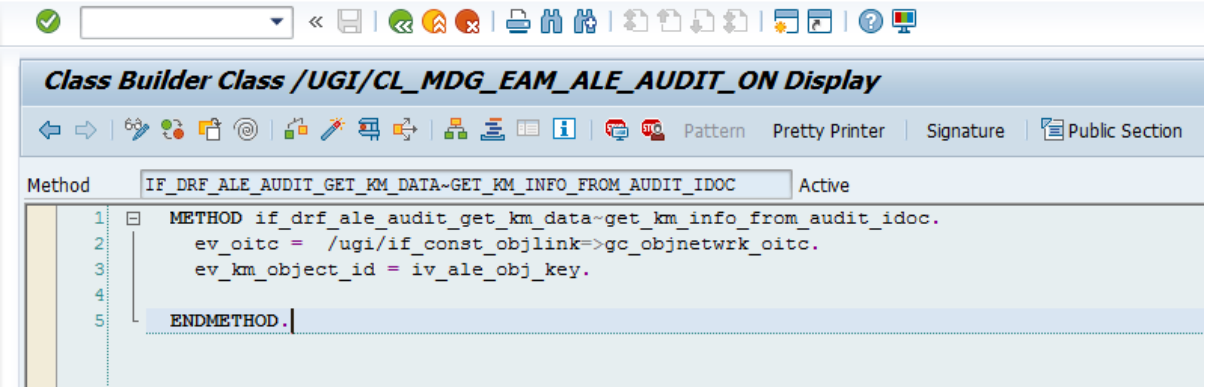


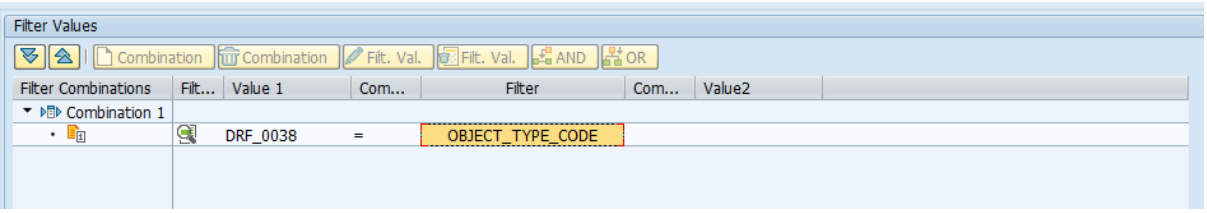




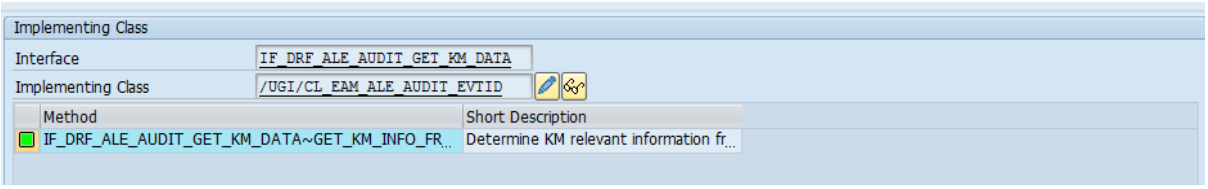
Object Link Networks

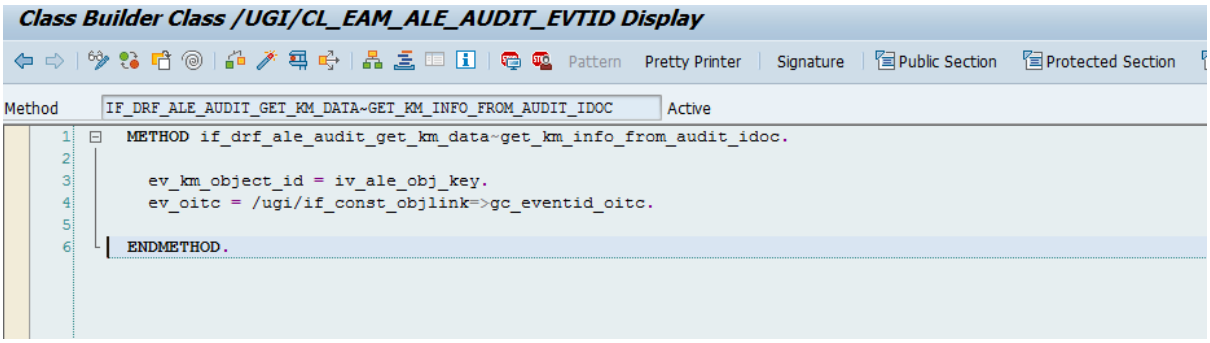


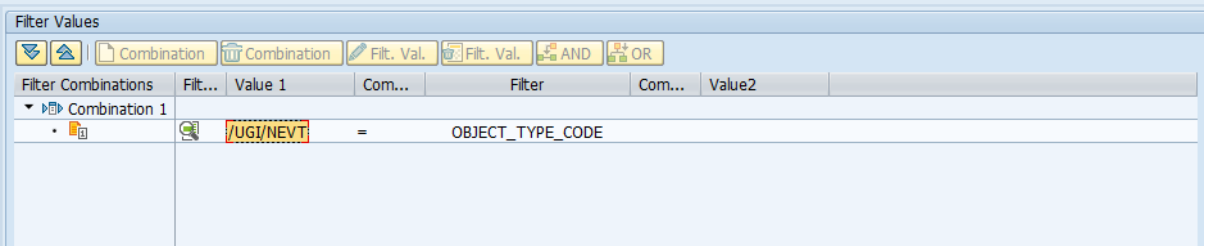




Network Attributes

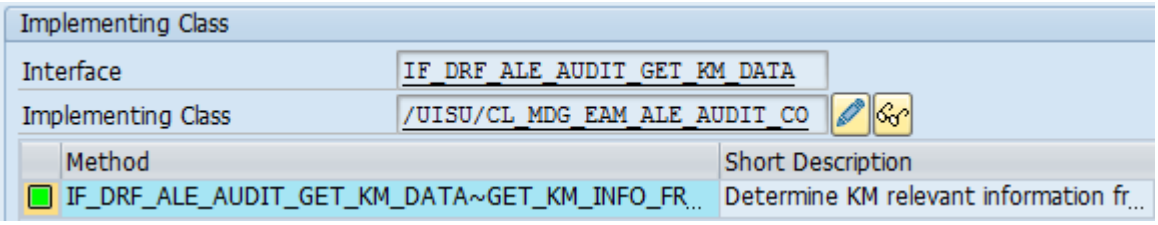


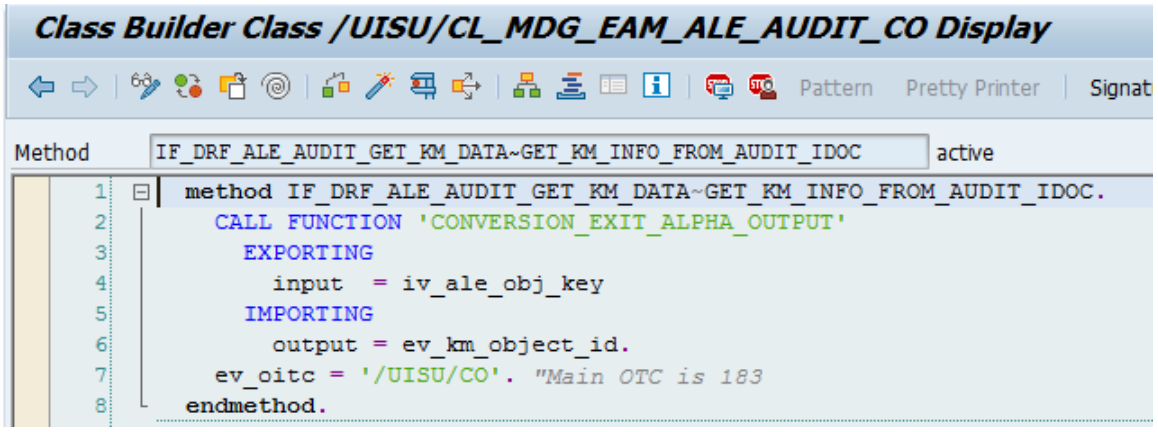


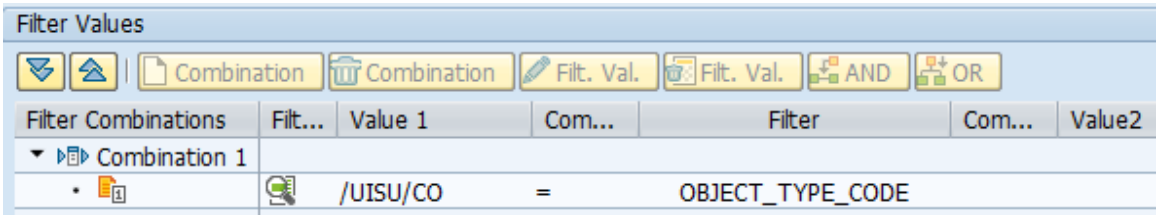


IS-U Industry Solutions (Optional)

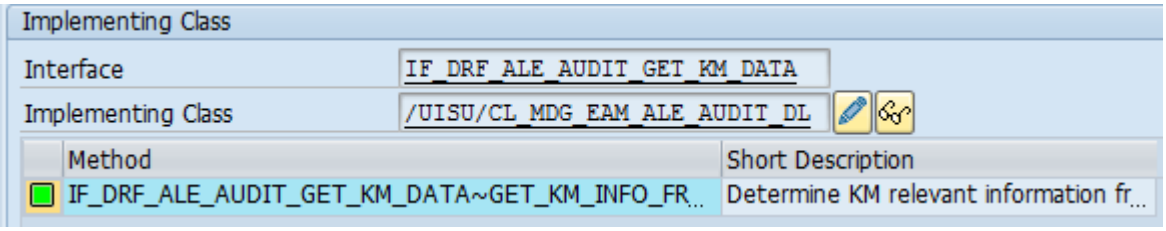
Connection Object

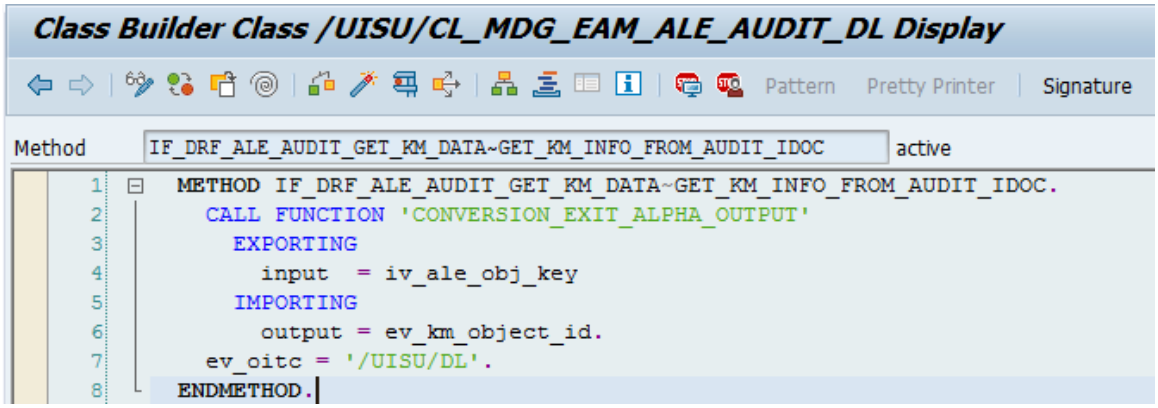


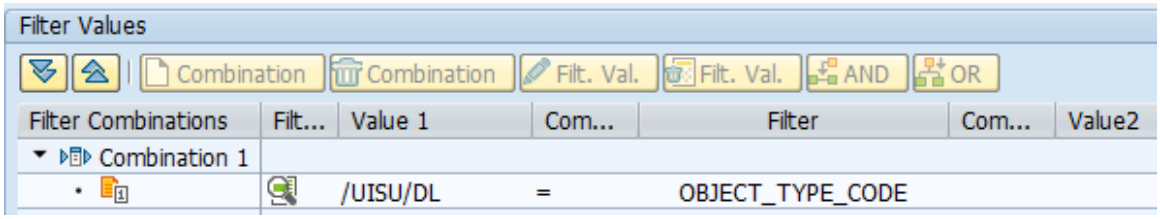




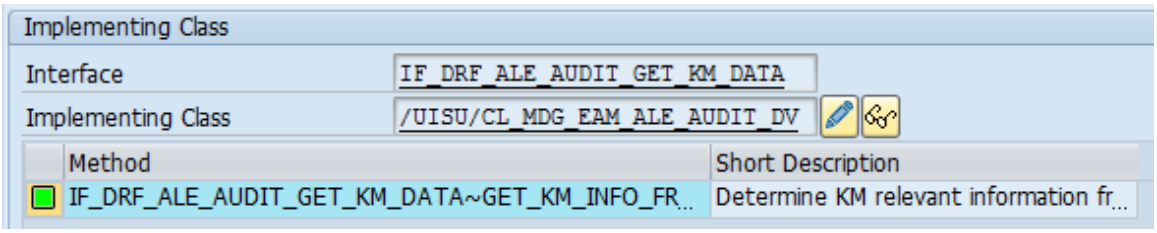
Device Location

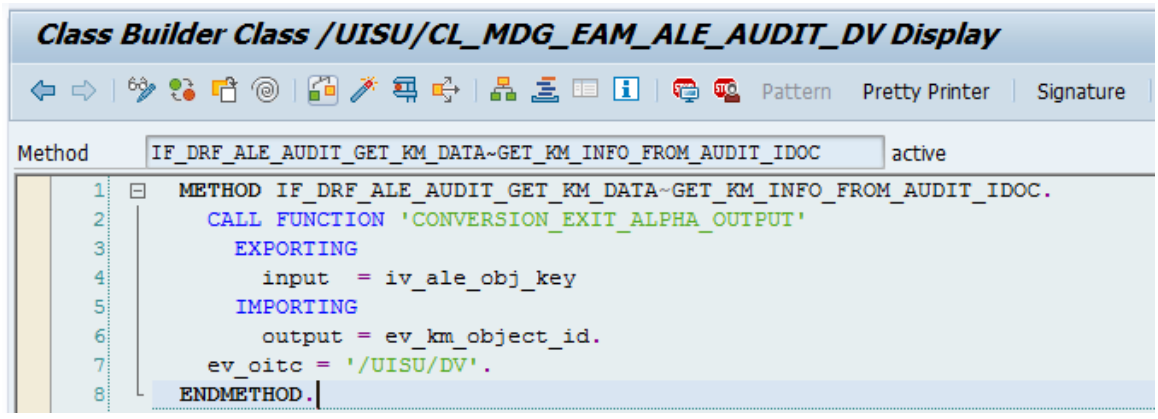


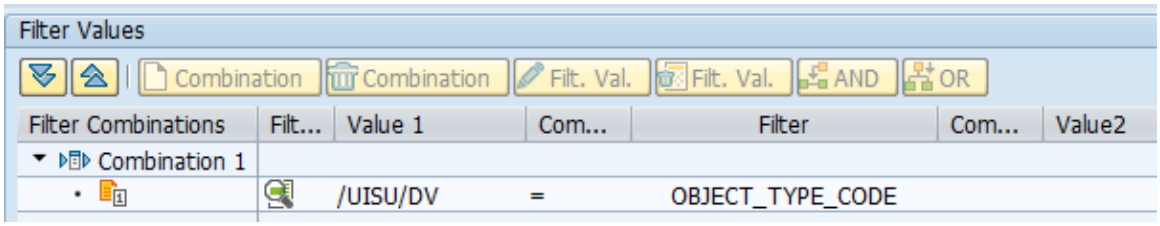




Device





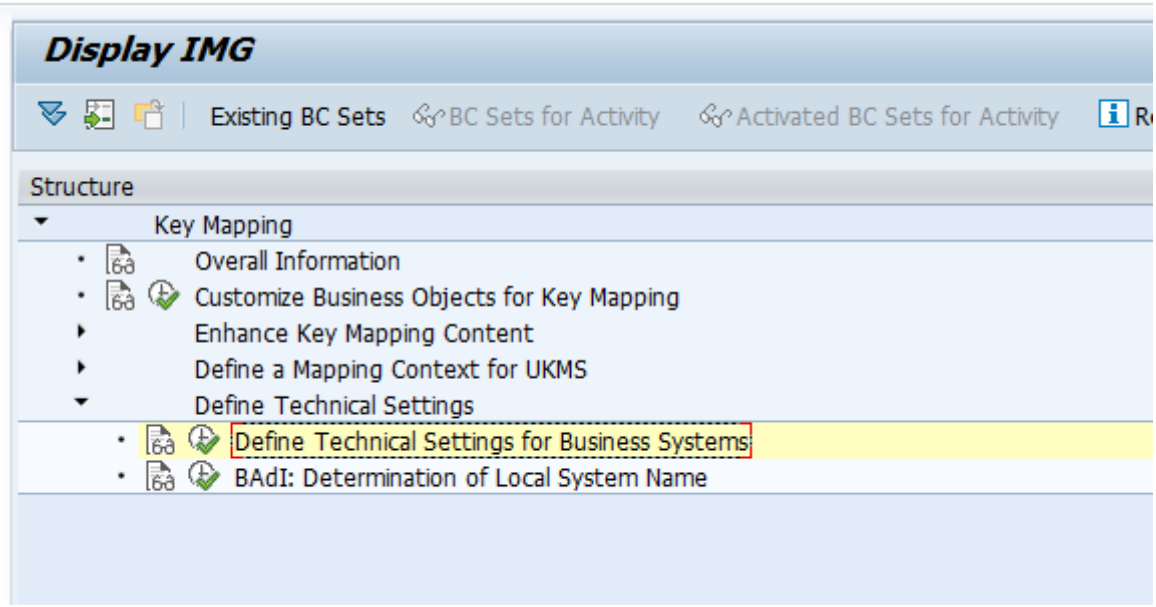


Define Technical Settings

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



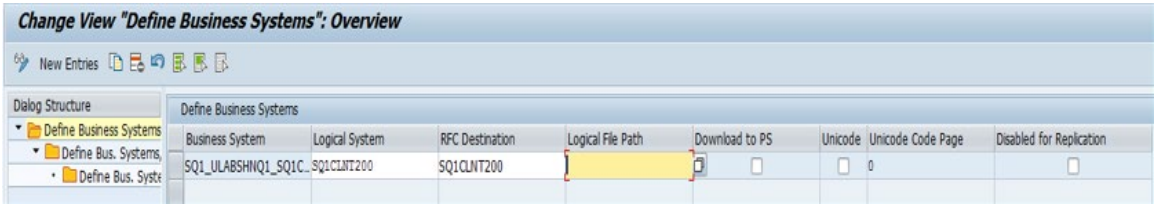
In this customizing activity, the following tasks are defined:

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

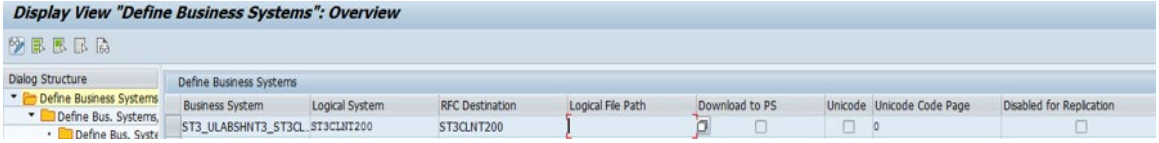
Define Business Systems

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

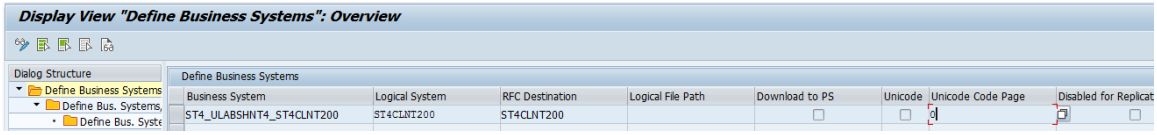
For example, the business system as displayed in the following screen has been considered for the obejcts: Functional Location, Object Metworks , Object Network attributes.



For Other EAM objects



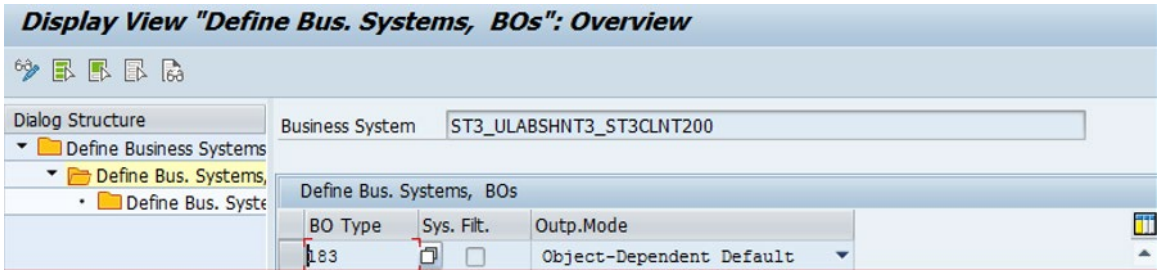
For ISU – Industry Solutions



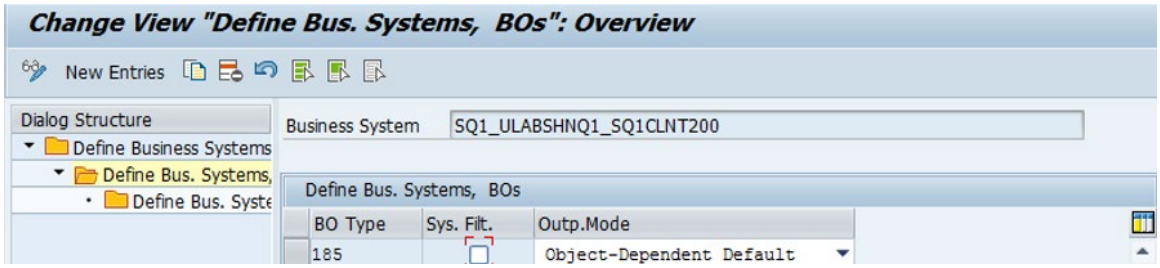
Define Business Systems, Business Object Types

In this step, add Business Object types that need to be replicated to business system.

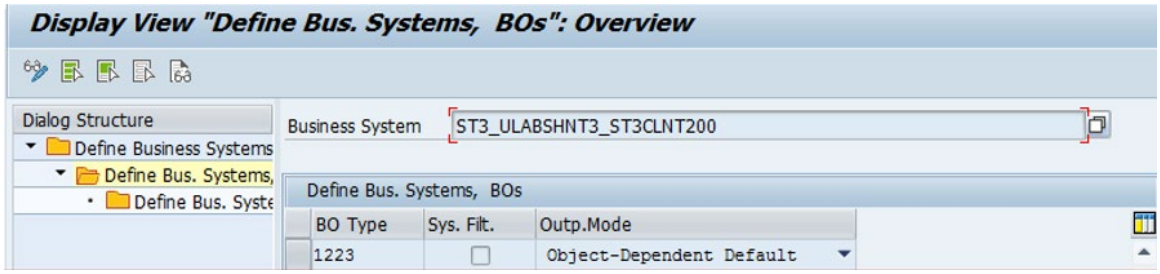
Equipment

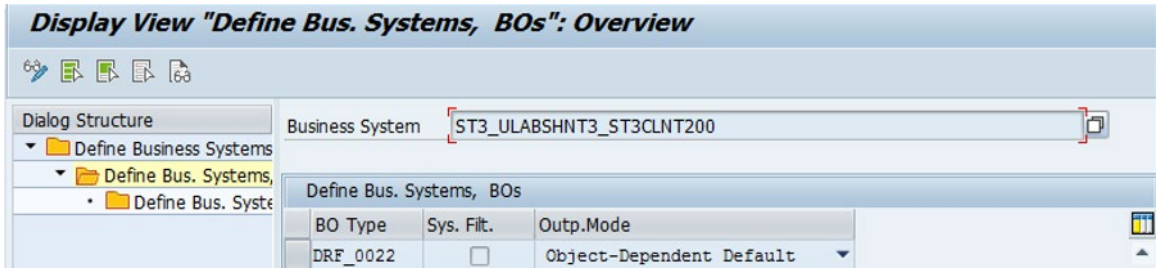


Functional Location

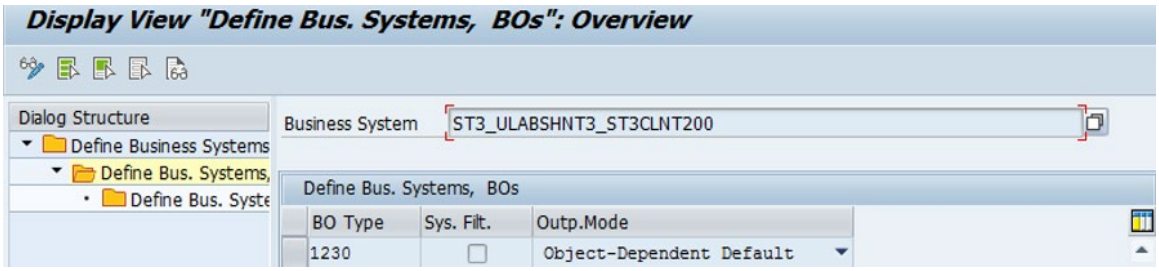


Maintenance Plan and Item

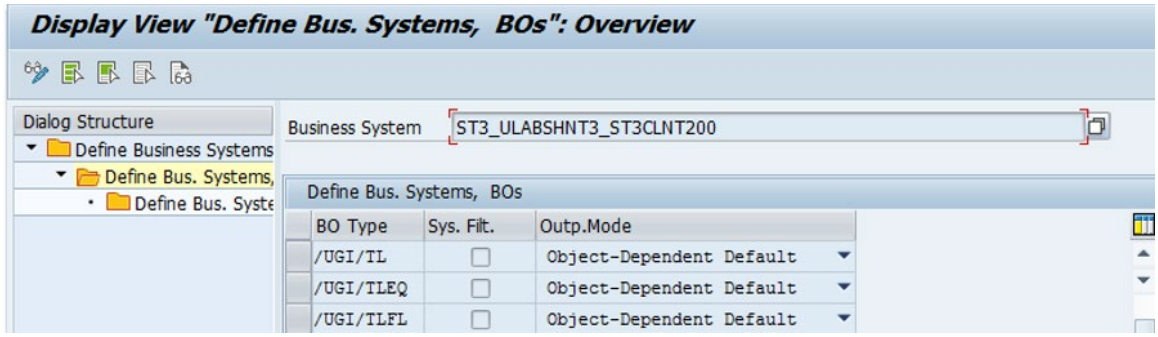


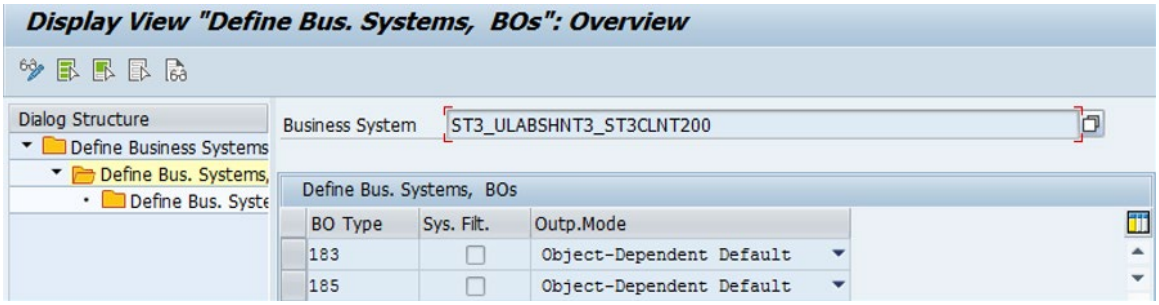


Measuring Point

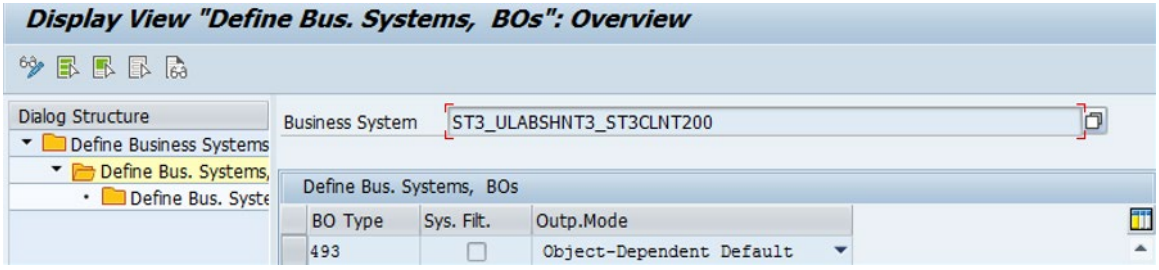


Task List

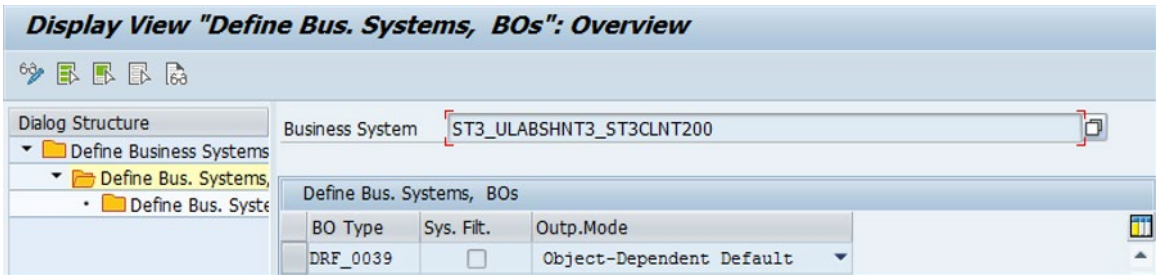




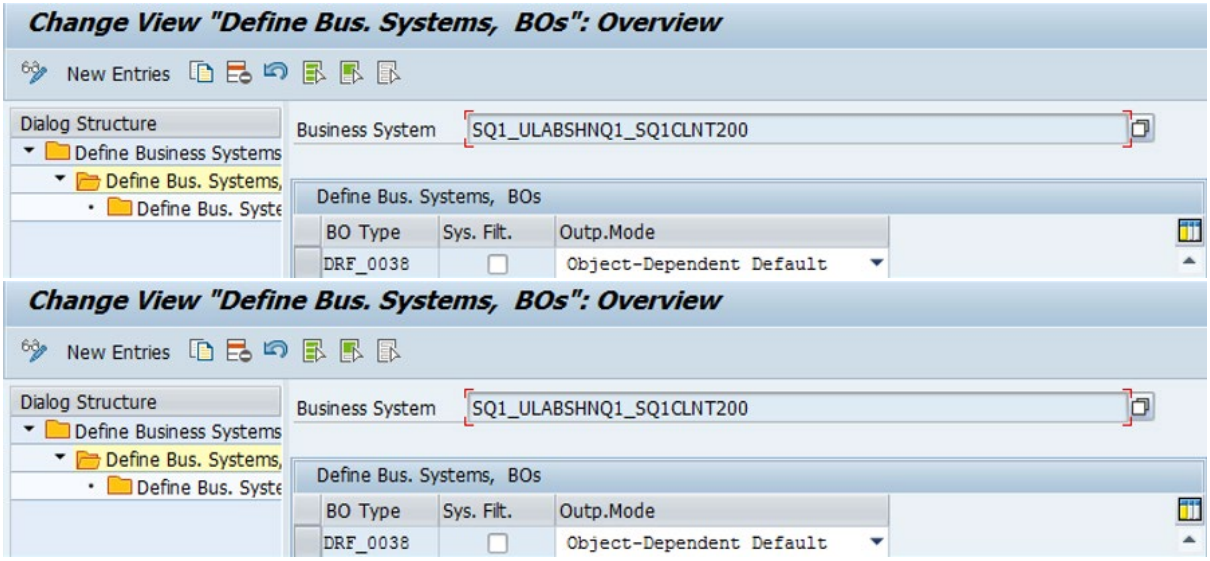
Work Center



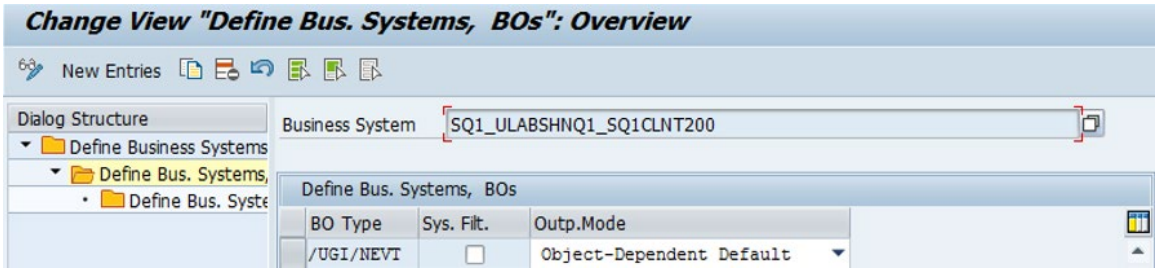
Object Links



Object Networks

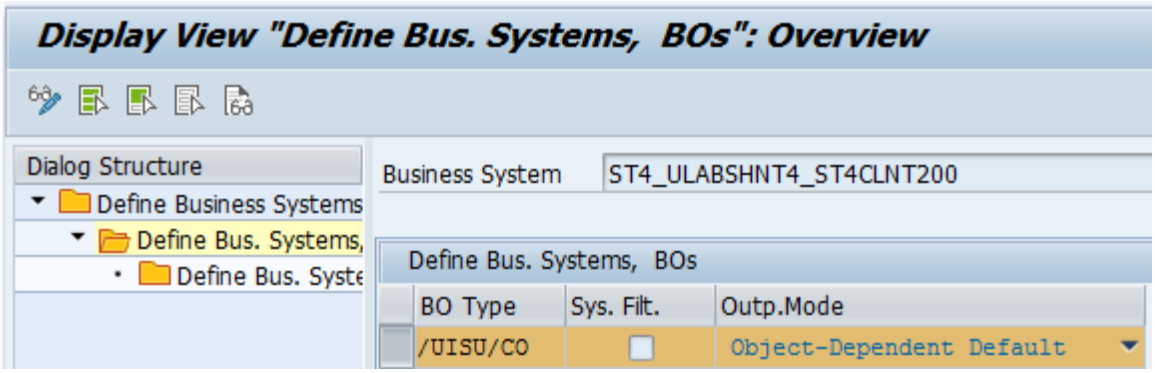


Network Attributes

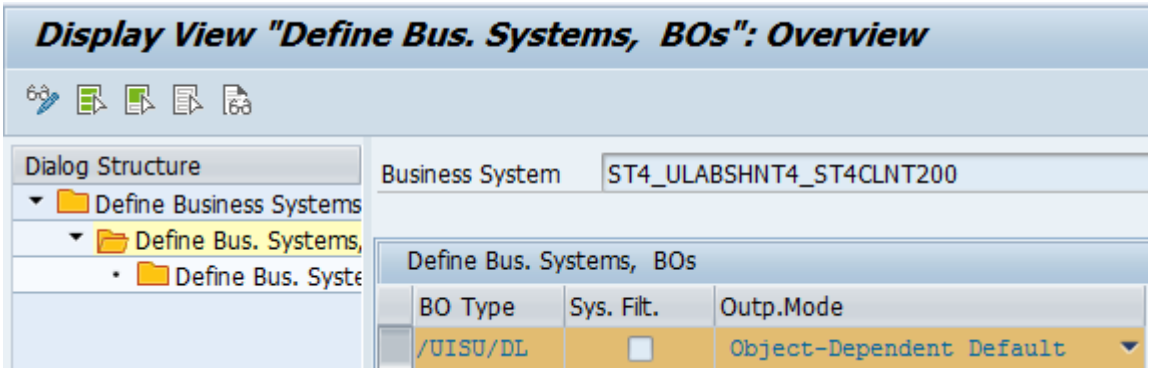


IS-U Industry Solution (Optional)

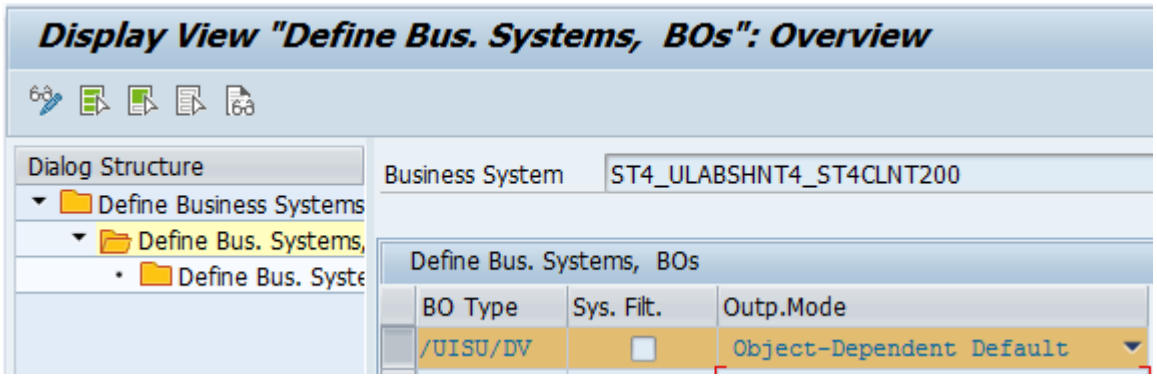
Connection Object



Device Location



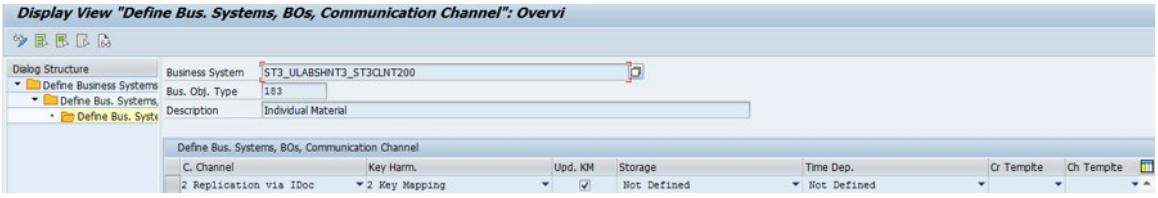
Device



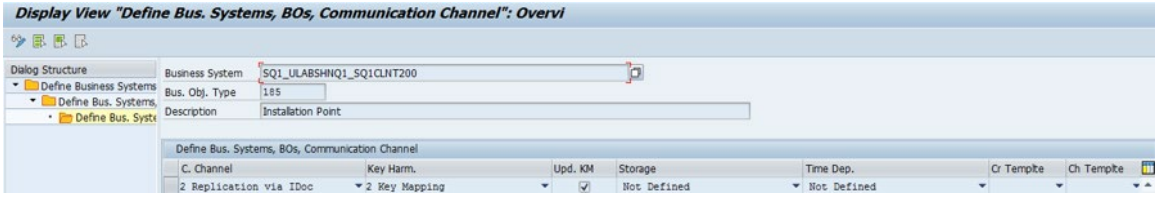
Define Business Systems, Business Object Types, Communication Channel

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

Equipment

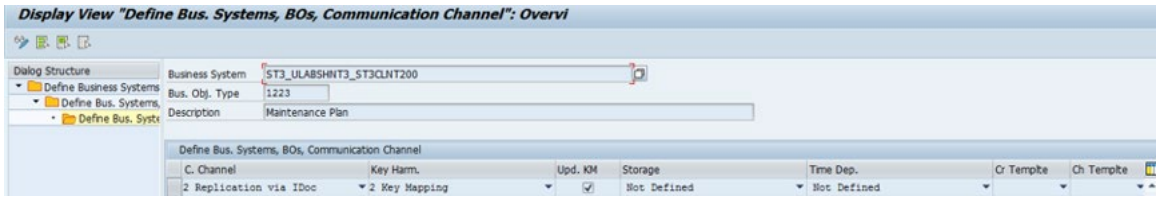


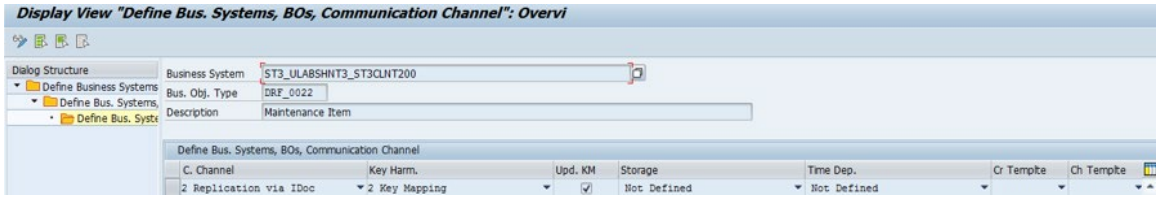
Functional Location



***Note**:* Functional Location must always be key mapped with the target system if Alt. Label is active.

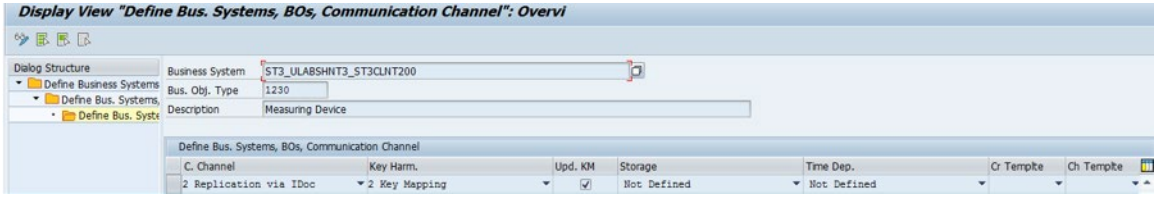
Maintenance Plan and Item



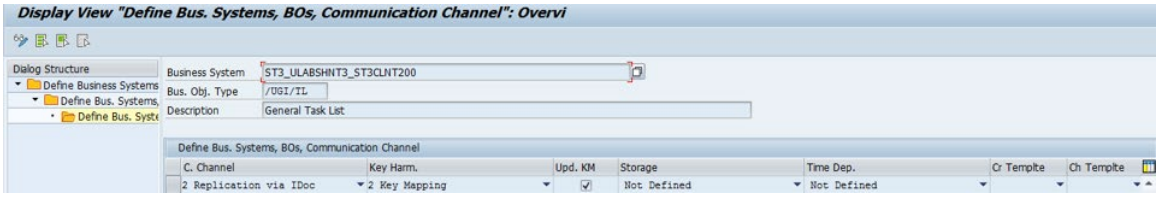


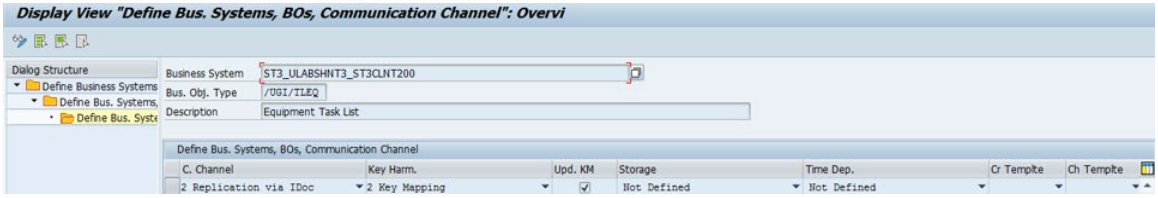
***Note**:* Maintenance Item must always be key mapped with the target system.

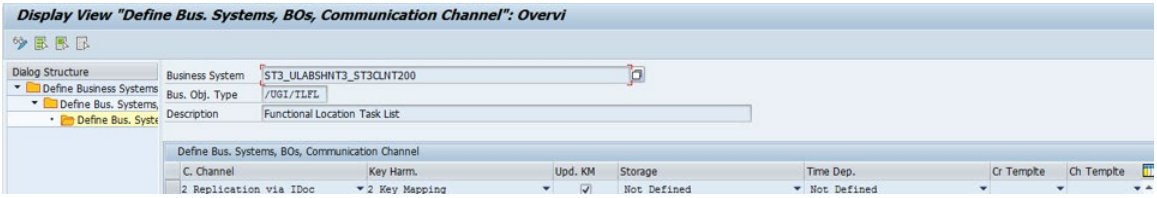
Measuring Point

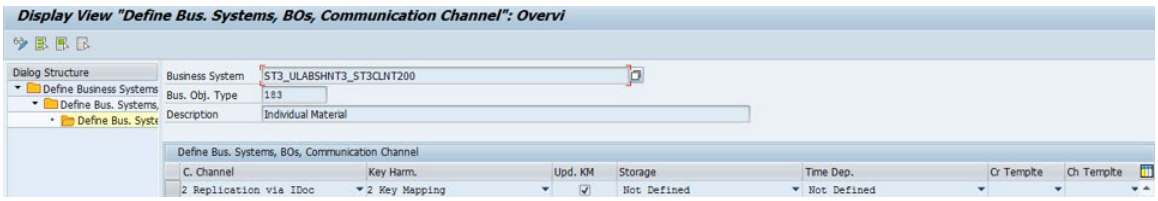


Task List

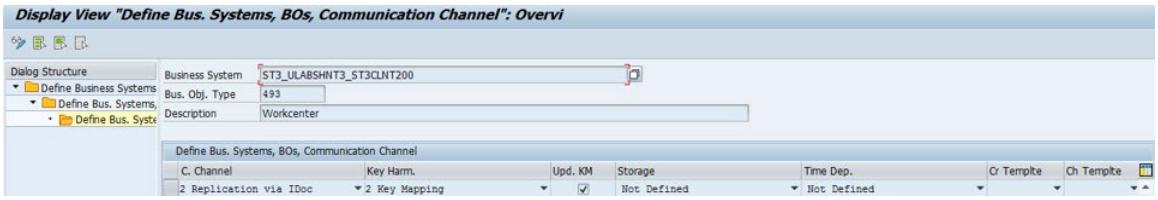




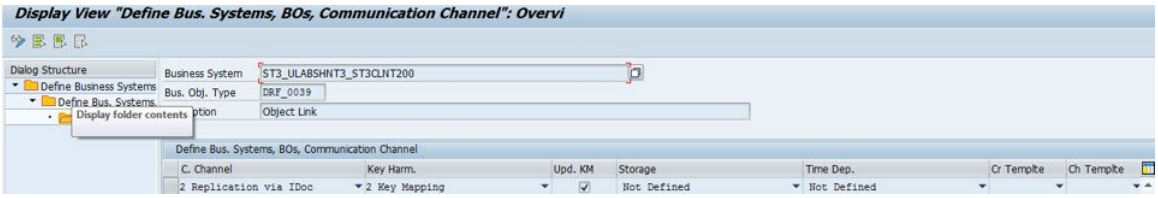




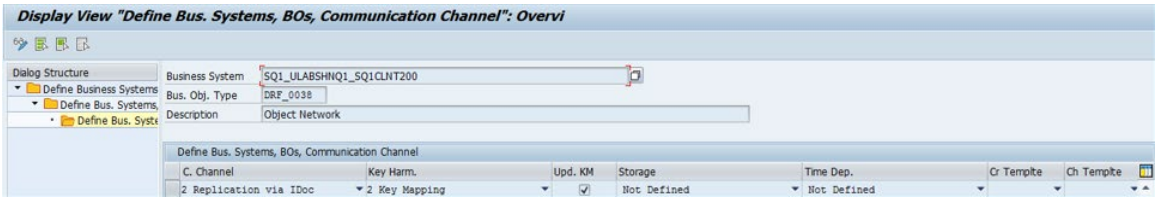
Work Center



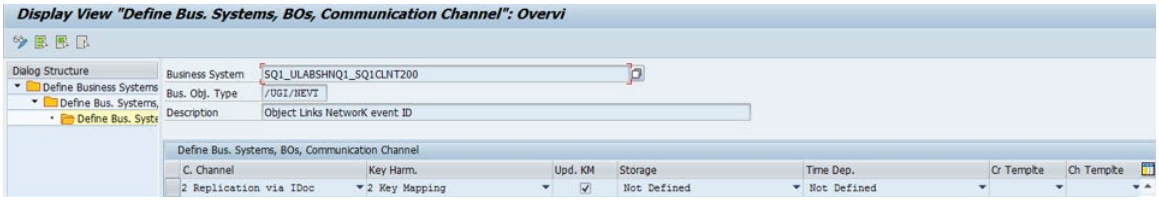
Object Links



Object Networks



Network Attributes

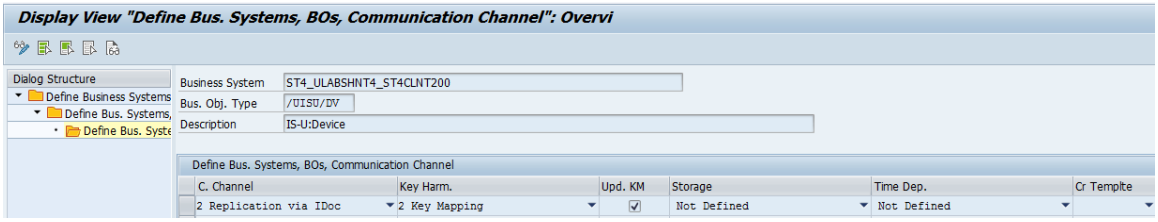


IS-U Industry Solutions (Optional)

Connection Object

Device Location

Device



Note: To enable checkbox “Upd. KM”, BAdI DRF_ALE_AUDIT_GET_KM_DATA need to be implemented for each Business Object Type. Refer the section on BAdI Implementation for an example.

Relationship Between Object type and BOR Object

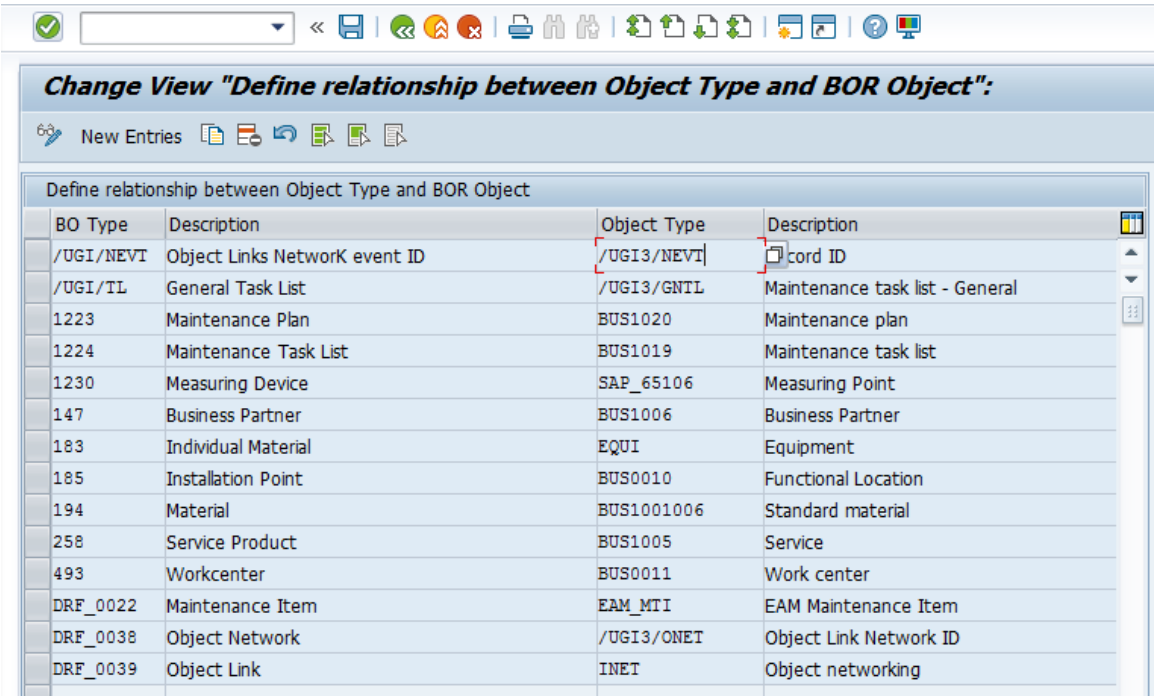
To process ALE ADUIT message successfully, OTC to BOR relationship must exist. Check whether the below entries are available or not. If not maintain the entries.

Prerequisite Note

2406058: EAM relevant relationships between Object Type and BOR Object.

Transaction Code: SM30

Table/View name: MDGV_OTC_BOR



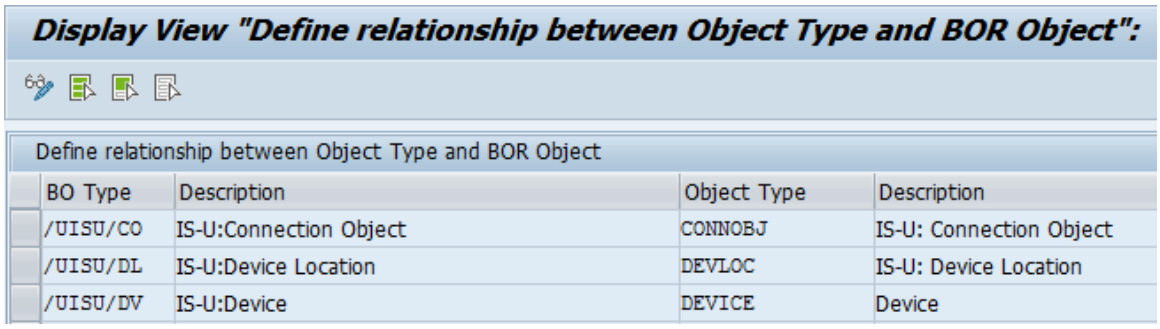
Change View "Define relationship between Object Type and BOR Object":

New Entries

Define relationship between Object Type and BOR Object

BO Type	Description	Object Type	Description
/UGI/NEVT	Object Links NetworK event ID	/UGI3/NEVI	cord ID
/UGI/TL	General Task List	/UGI3/GNTL	Maintenance task list - General
1223	Maintenance Plan	BUS1020	Maintenance plan
1224	Maintenance Task List	BUS1019	Maintenance task list
1230	Measuring Device	SAP_65106	Measuring Point
147	Business Partner	BUS1006	Business Partner
183	Individual Material	EQUI	Equipment
185	Installation Point	BUS0010	Functional Location
194	Material	BUS1001006	Standard material
258	Service Product	BUS1005	Service
493	Workcenter	BUS0011	Work center
DRF_0022	Maintenance Item	EAM_MTI	EAM Maintenance Item
DRF_0038	Object Network	/UGI3/ONET	Object Link Network ID
DRF_0039	Object Link	INET	Object networking

For IS-U Industry Solution (Optional)



Display View "Define relationship between Object Type and BOR Object":

Define relationship between Object Type and BOR Object

BO Type	Description	Object Type	Description
/UISU/CO	IS-U:Connection Object	CONNOBJ	IS-U: Connection Object
/UISU/DL	IS-U:Device Location	DEVLOC	IS-U: Device Location
/UISU/DV	IS-U:Device	DEVICE	Device

Prerequisites for Key Mapped Value Updation in Hub System

- Set up background job for report RBDSTATE in client system.
- Run the report RBONRRP1 in both the hub and target system and schedule a batch job for every 60 seconds. You can limit it for Alternative Labeling only by restricting the object type to "IF" as a defined.

Prerequisites for Processing IDocs With Status 29

Set up background job for report /UGI/EAM_IDOC_REP_740 in the hub system.

This program re-process the IDocs with status 29. In the following scenarios IDoc's will be set to status 29.

1. While Replicating objects with Classification data
2. While Replicating objects with Address data
3. While Replicating Maintenance Plan

4. While Replicating Hierarchy with superior functional Locations/Superior equipments.
5. While Replicating Objects with any dependent objects where respective dependent object is set to "key mapping"

Troubleshooting Key Mapping

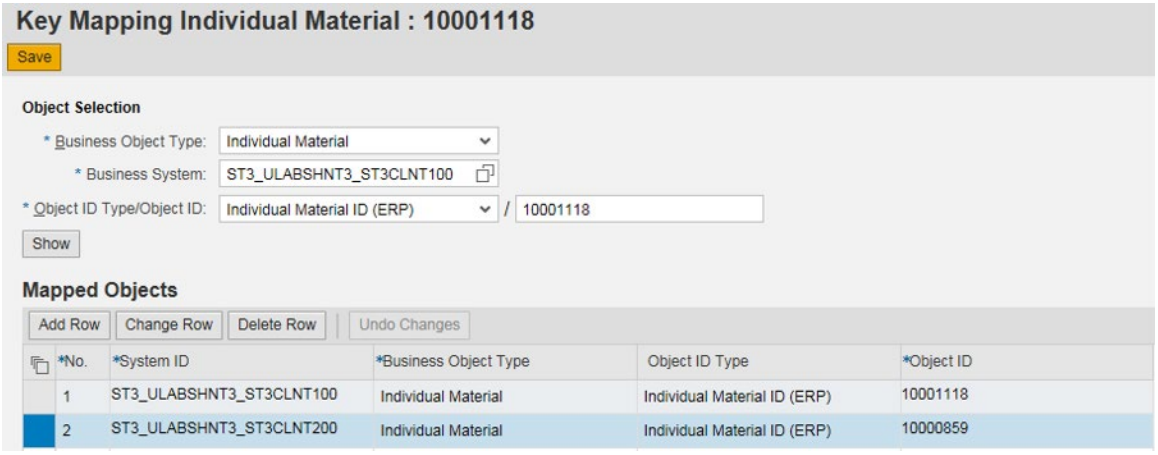
Navigate to NWBC and select the respective role. Go to Data Exchange > Data Replication > Edit Key Mapping.

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 DRF
- Enter Object id value without leading zeros

Equipment

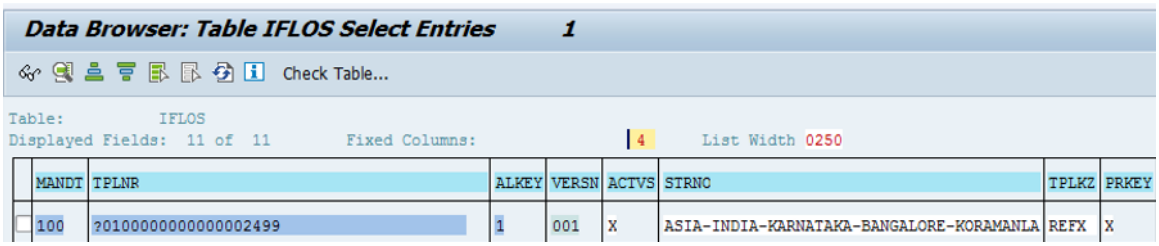
In the following example, screen print equipment number in hub system is 10001118 which is replicated as equipment 10000859 in client system.

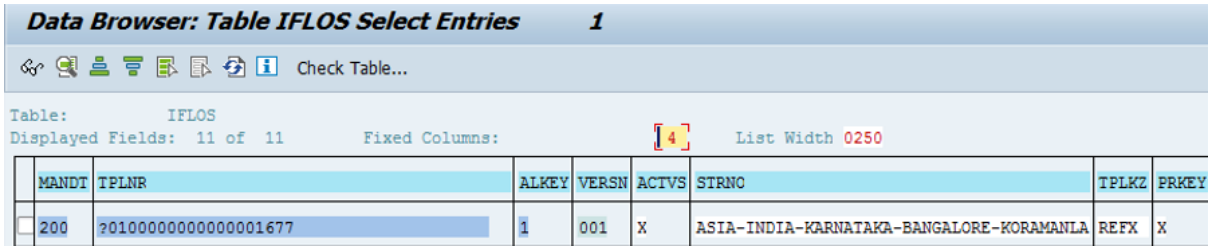


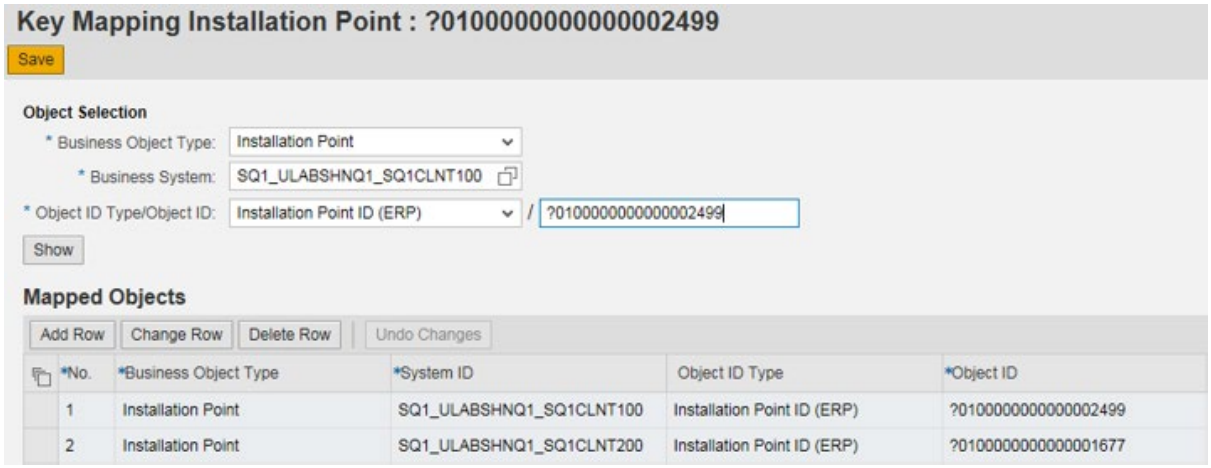
Functional Location

Key Mapping for Functional Location is applicable only when Alternative label is active. In case of Alternative label inactive/Deactivate scenario, Replication should be set to "Harmonized IDs (no Key mapping)" Otherwise system creates key mapping with same label.

In the following example, screen print Functional Location in hub system is ASIA-INDIA-KARNATAKA-BANGALORE-KORAMANLA which is replicated as same lablel . Key mapping will be get created with internal numbers .

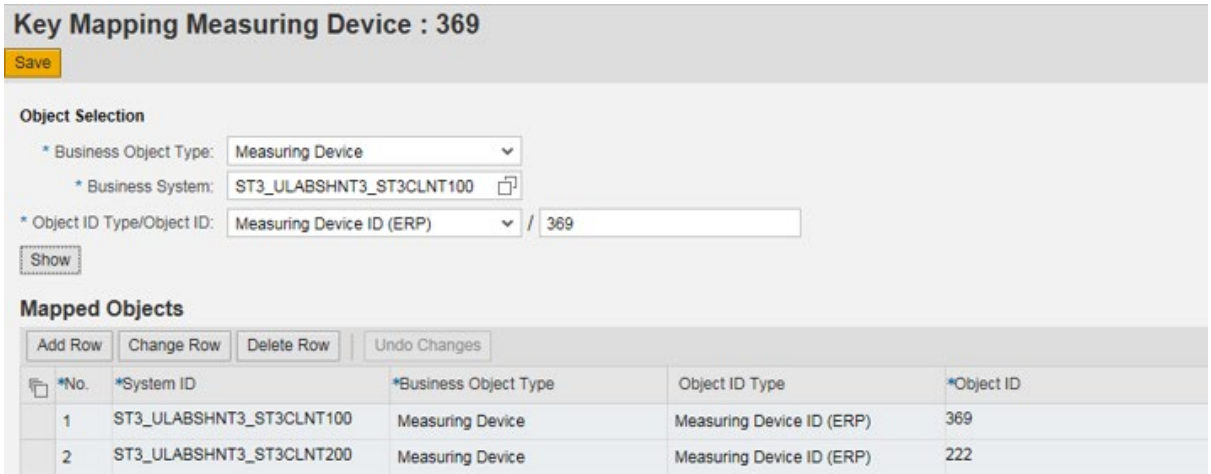






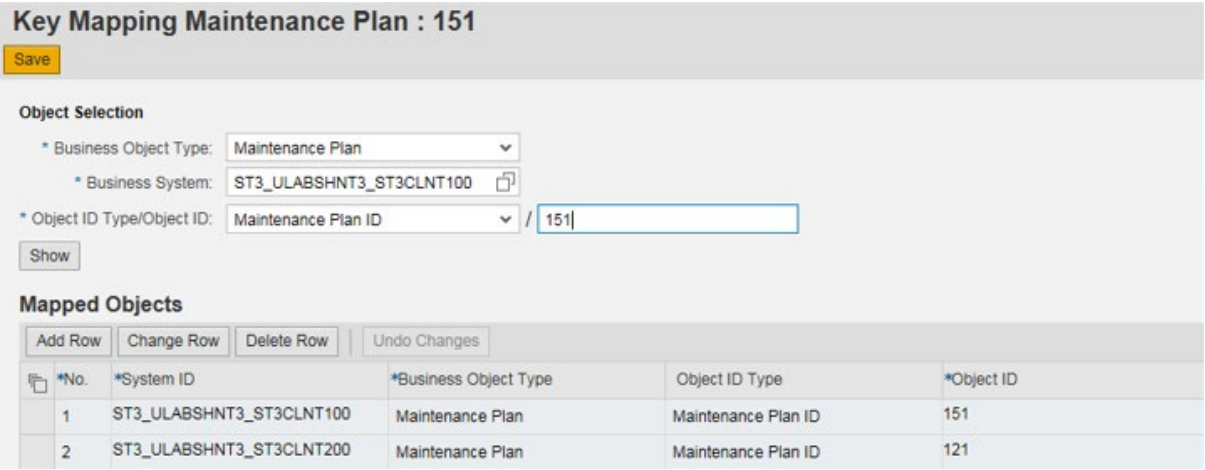
Measuring Point

In the following example, screen print Measuring Point in hub system is 369 which is replicated as Measuring Point 222 is client system.



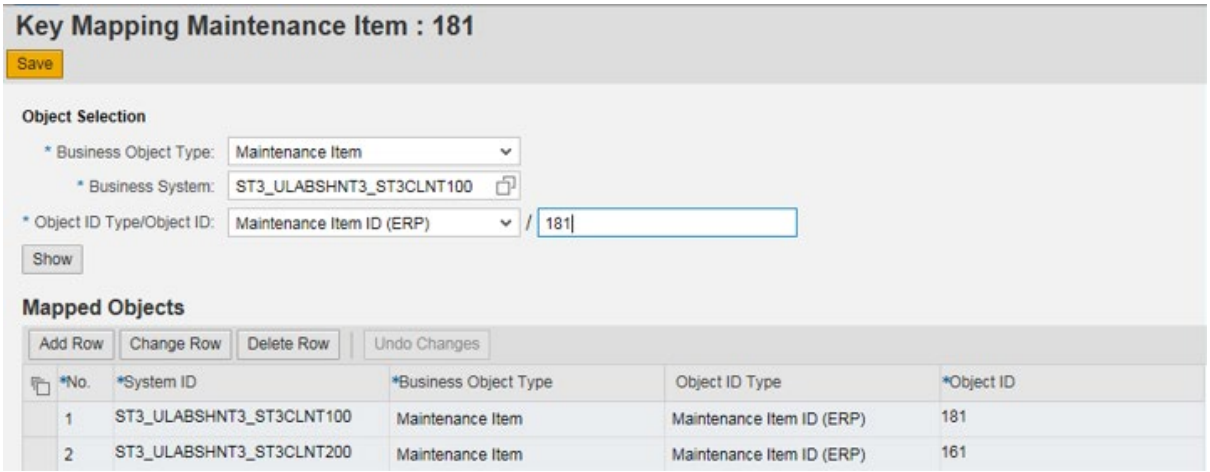
Maintenance Plan

In the following example, screen print Maintenance Plan in hub system is 151 which is replicated as Maintenance Plan 121 is client system.



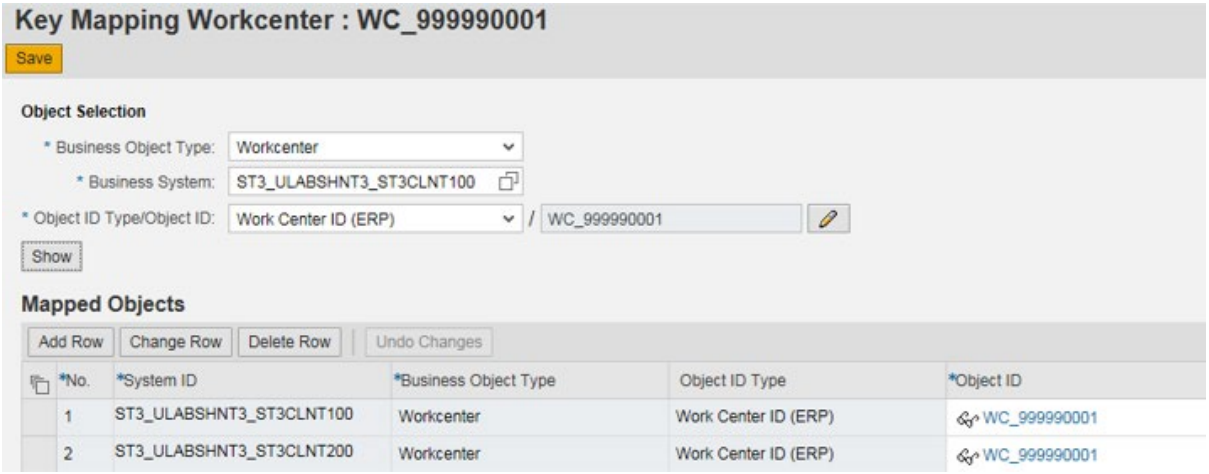
Note : In case of Maintenancec plan key mapping; Key mapping for Maintenance item is pre-requisite and its mandatory. You should set Maintenance item as always key mapping in while defining "Bus systems ,BOs,Communication channel" and Measuring device should be available /key mapped where counter data is populated.

Replication of maintenance item will be successful only when respective dependent object is available/key mapped to the target systems namley Functional Location,Equipment,Tasklist.



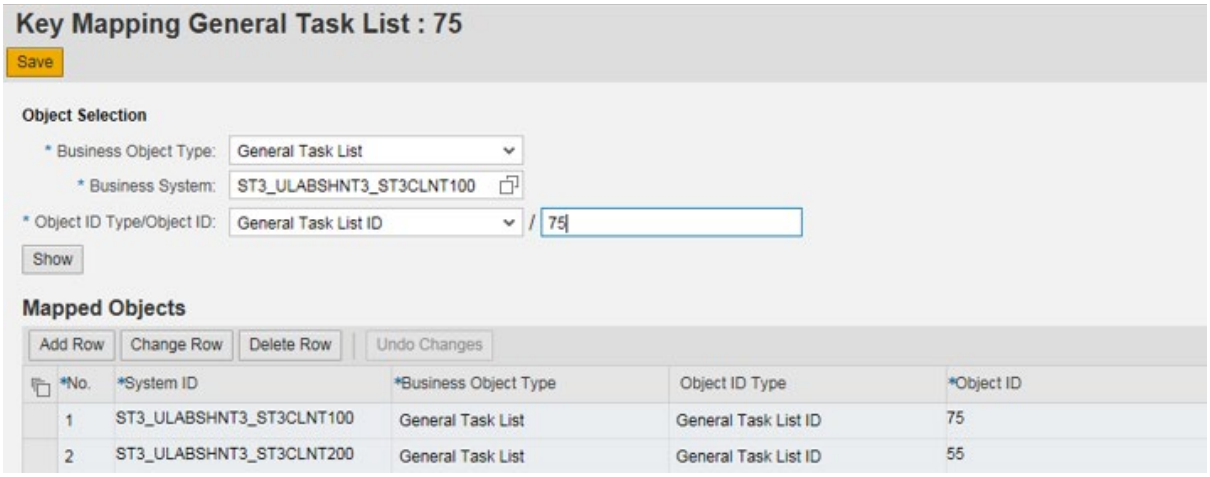
Work Center

In the following example, screen print Workcenter/Plant in hub system is WC_99999/0001 which is replicated as Workcenter WC_99999/0001 is client system.



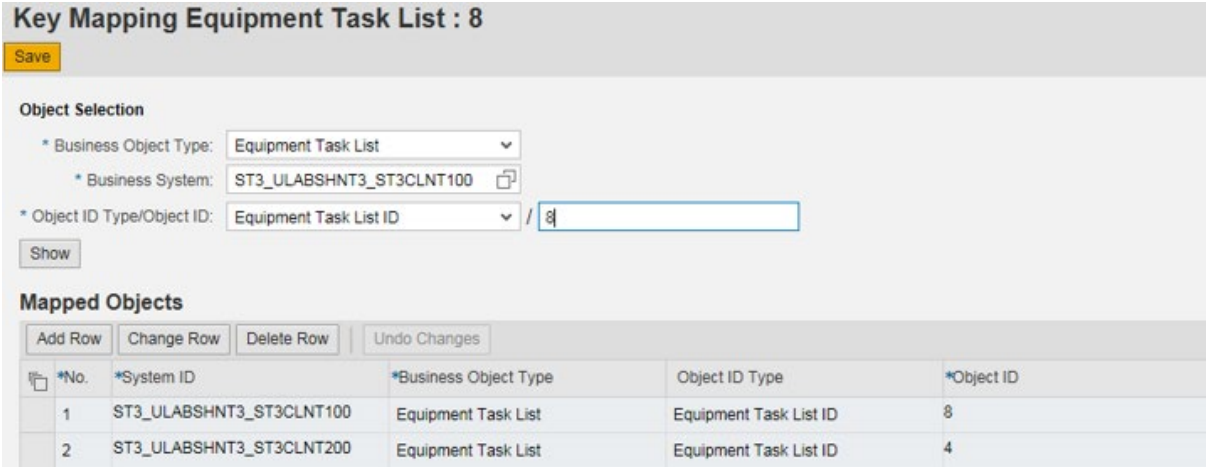
General Task List

In the following example, screen print General Task List in hub system is 75 which is replicated as General Task List 55 is client system.



Equipment Task List

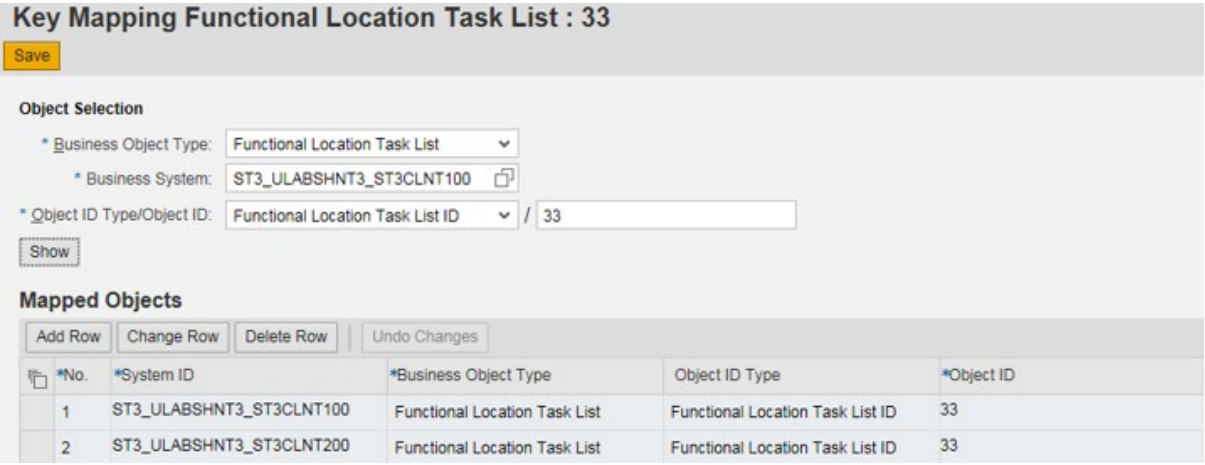
In the following example, screen print Equipment Task List in hub system is 8 which is replicated as Equipment Task List 4 is client system.



Note : In case of Equipment task list replcation, Respective Equipment should be available /key mapped in the target system.

Functional Location Task List

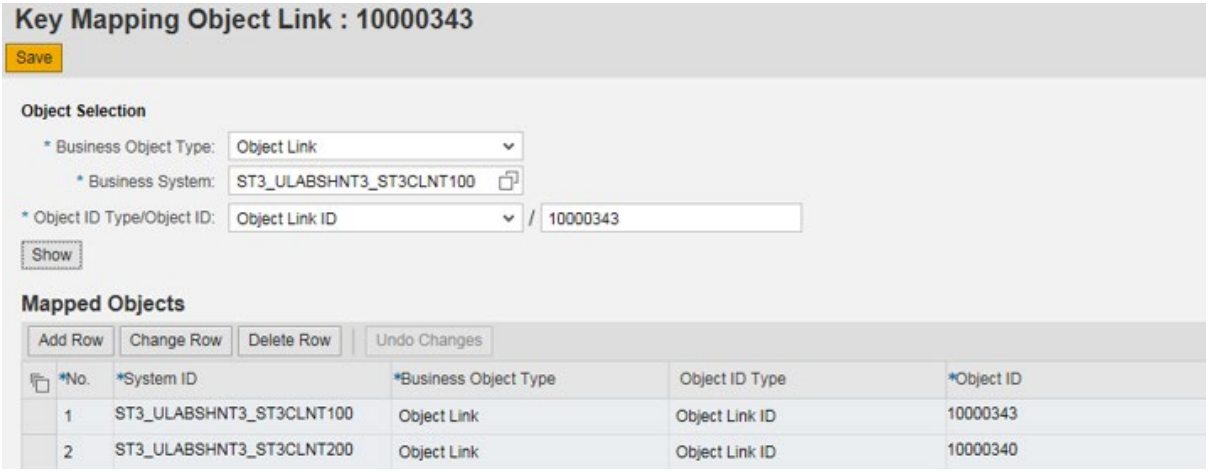
In the following example, screen print Functional Task List in hub system is 33 which is replicated as Functional Task List 33 is client system.



Note : In case of Functionla Location task list replcation, Respective Functional Location should be available /key mapped in the target system.

Object Links

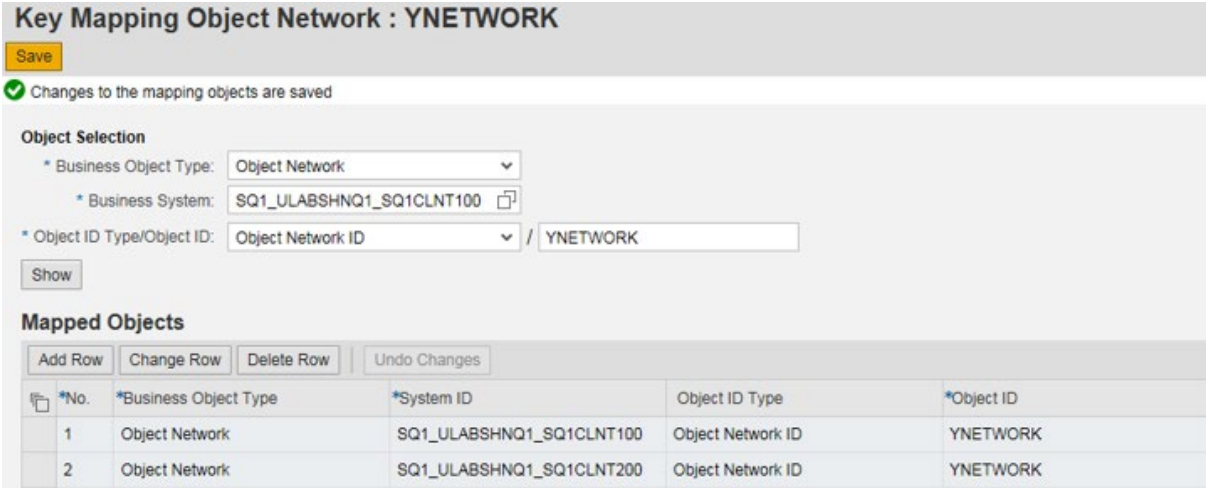
In the following example, screen print Object links in hub system is 10000343 which is replicated as Object Links 10000340 in client system.



Note: In case of Object links, respective Functional Locations/Equipment's should be available/key mapped to the target systems.

Object Networks

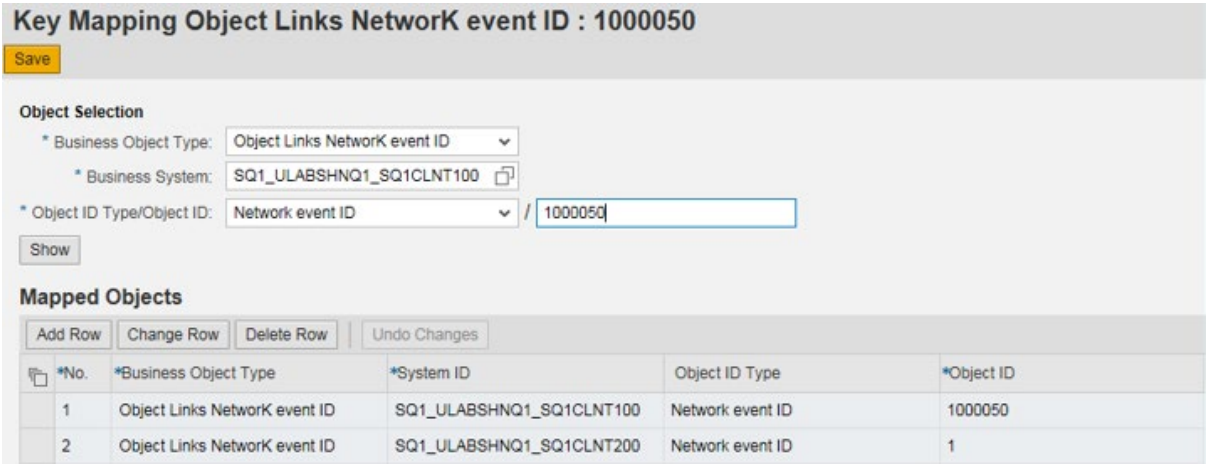
In the following example, screen print Object Network in hub system is YNETWORK which is replicated as Object Network as YNETWORK is client system.



Note: Object network ID gets created with external number range hence key mapping never gets created automatically, user has an option to maintain the same manually.

Network Attributes

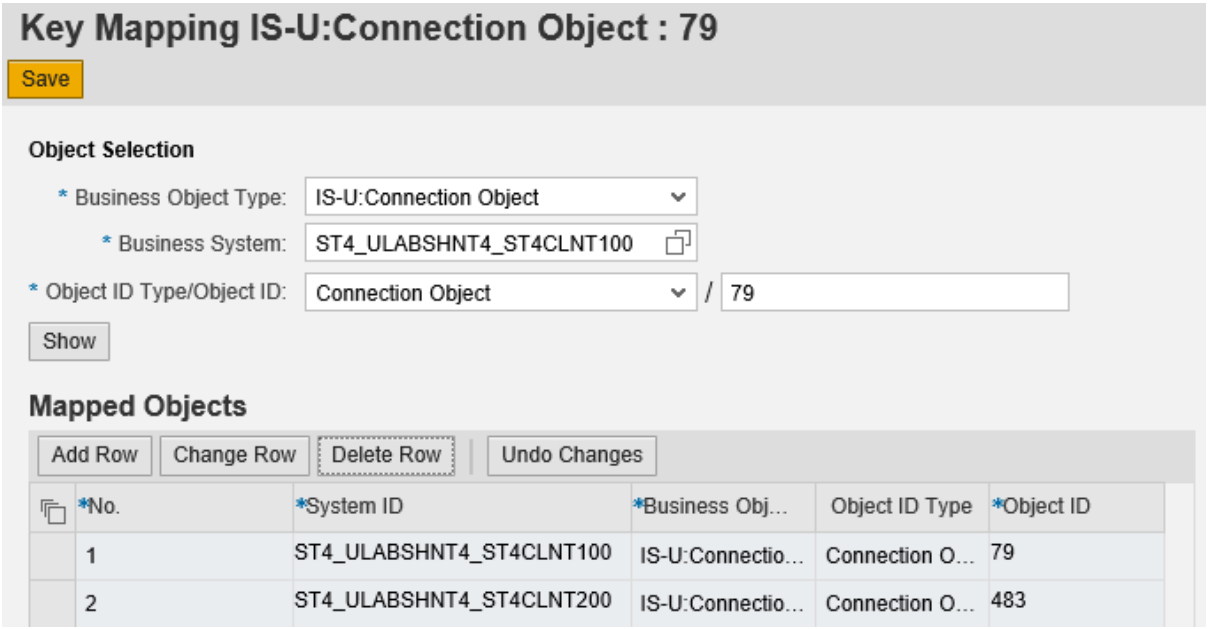
In the following example, screen print Network Attributes in hub system is 1000050 which is replicated as Network Attributes 1 is client system.



IS-U Industry Solutions (Optional)

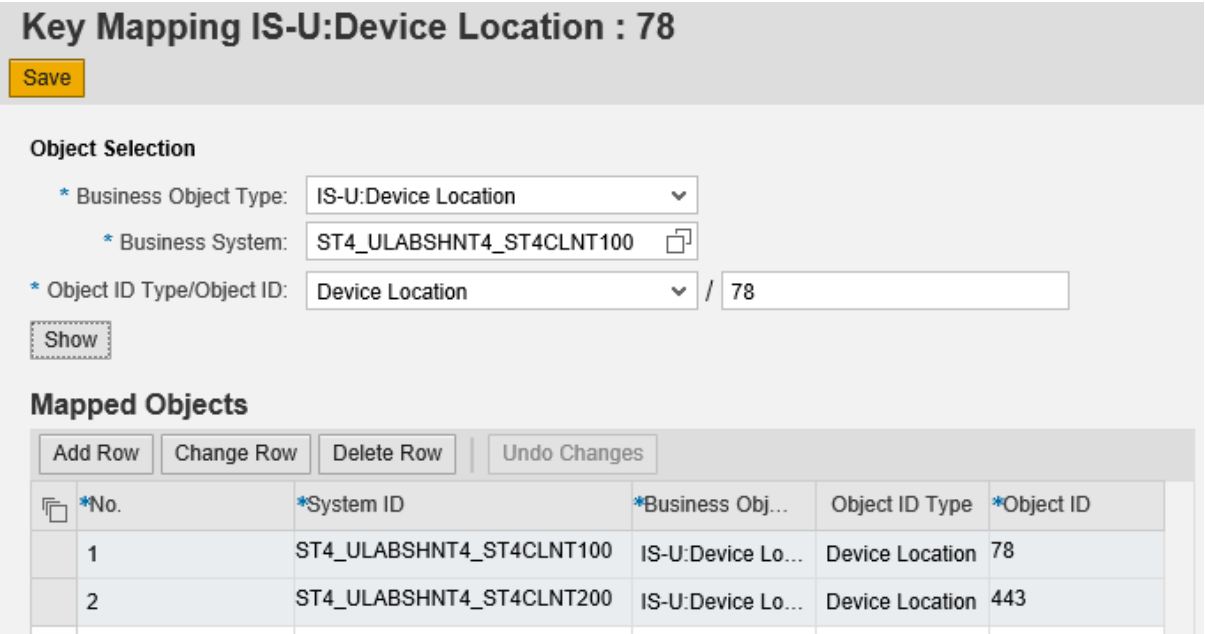
Connection Object

In the following example, screen print Connection Object in hub system is 79 which is replicated as Connection Object 483 is client system.



Device Location

In the following example, screen print Device Location in hub system is 78 which is replicated as Device Location 443 is client system.



Device

In the following example, screen print Device in hub system is 10000577 which is replicated as Device 10000355 is client system.