

# How-To Guide: Key and Value Mapping Configuration for RFM

## Applies to

Prometheus Group Solutions for MDG RFM

## 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 FMS include standard implementations of the Data Replication Framework (DRF) that reads the data and send the messages to the target system. The standard implementations support Key Mapping and Value Mapping.

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

**Author:** Ramesha Kalammanavar

**Company:** Prometheus Group

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## Introduction

You can use this document to create mappings between object instances by connecting their object IDs. This document describes the steps in sequence to verify the Logical Systems and RFC connections for sending and receiving system.

## Verifying Logical Systems and RFC Connections for Sending and Receiving Systems

Both sending and receiving clients/systems should be defined as Logical Systems and they need to be assigned to the relevant clients.

Use the following step to verify the Logical Systems:

- Run transaction code (t-code) SALE and choose Basic Settings > Logical Systems > Define Logical System.

Use the following step to verify that both the systems are assigned to the relevant clients:

- Run t-code SALE and choose Basic Settings > Logical Systems > Assign Logical System to Client.

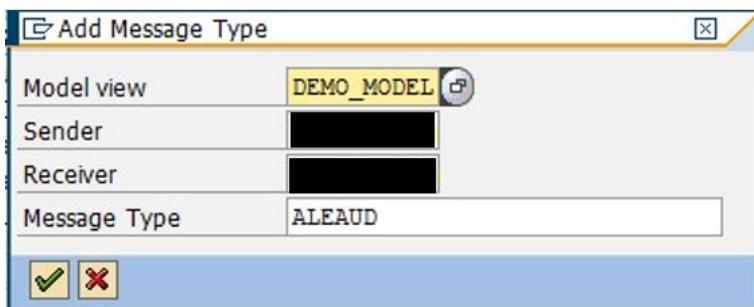
Use the following steps to verify the RFC Connections:

- Run t-code SALE and choose Communication > Create RFC Connections. The target partner system/client should be defined here, as an ABAP connection with a connection type 3 and with the same name as the target Logical System. In addition, perform a connection test.
- Define an ALE tRFC port using t-code WE21.
- Use the RFC created in the earlier step to define this tRFC port.

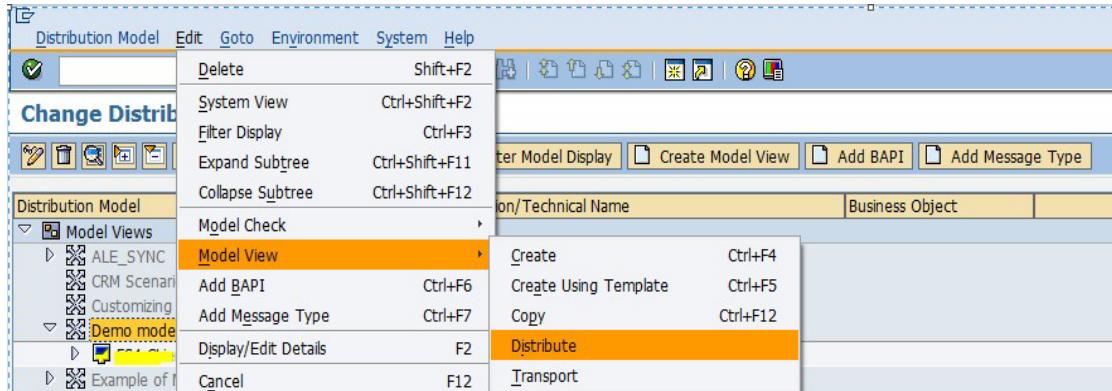
## Create and Distribute IDoc Distribution Model for ALEAUD Message in the Sending (ECC) System/Client

Use the following steps to create and distribute IDoc Distribution Model in SALE for the ALEAUD:

- Run t-code SALE and choose Modelling and Implementing Business Processes > Maintain Distribution Model and Distribute Views. Alternatively, you can run the Run t-code BD64.
- Switch to Change mode and click on “Create Model View” button.
- Enter short text and technical name.
- Save the Model View.
- Select the Model View as created above and click on “Add Message Type” button.
- For Sender, enter the Logical System name for the sending (ECC) system/client and for receiver, enter receiving system/client (MDG) and the Message type as ALEAUD.



7. Click on “Continue” button.
8. Save the Model View.
9. Select the Model View. Navigate to Edit > Model View > Distribute.



10. In the popup shown, verify that the correct receiving (MDG) client/system is selected and click Enter.
11. In the receiving (MDG) client/system, run t-code BD64 and verify that the Model View is updated with the message type ALEAUD.

## Generate the Partner Profile in the Sending (ECC) Client/System

1. Run t-code SALE and choose Modelling and Implementing Business Processes > Partner Profiles > Generate Partner Profiles. Alternatively, you can run the t-code BD82.
2. Enter the newly created Model View and in the Partner System field, enter the Logical System name of the receiving (MDG) client/system.
3. For the authorized users, enter the ALE-User (the default value is ALEREMOTE) and for the remaining fields maintain the following field values and execute.

| Field                       | Value                         |
|-----------------------------|-------------------------------|
| Version                     | 3                             |
| Pack Size                   | 100                           |
| Output Mode                 | Pass IDoc immediately         |
| Inb. Parameters: Processing | Trigger by background program |

4. To verify the Partner Profiles generated, run the t-code WE20 and from the Partner Profiles menu, choose the Partner Type LS and then choose the Logical System of the receiving client/system.
5. In the detail screen, under the Outbound parmtrs, the following Message Types should appear along with the respective Basic Types.

| Message type | Basic type |
|--------------|------------|
| ALEAUD       | ALEAUD01   |

**Note:** If there is any issue in generating the Partner Profile through BD82, then manually add the Partner Profiles through WE20.

## Generate the Partner Profiles in the Receiving (MDG) System/Client

Use the following steps to generate the Partner Profiles in receiving (MDG) client/system.

1. Run t-code SALE and choose Modelling and Implementing Business Processes > Partner Profiles > Generate Partner Profiles. Alternatively run the t-code BD82.
2. Enter the newly created Model View and in the Partner System field enter the Logical System name of the sending (ECC) client/system.
3. For the authorized users, enter the ALE-User (the default value is ALEREMOTE) and for the remaining fields, maintain the following and execute.

| Field                       | Value                         |
|-----------------------------|-------------------------------|
| Version                     | 3                             |
| Pack Size                   | 100                           |
| Output Mode                 | Pass IDoc immediately         |
| Inb. Parameters: Processing | Trigger by background program |

4. To verify the Partner Profiles generated, run the t-code WE20 and from the Partner Profiles menu choose the Partner Type LS and then choose the Logical System of the sending client/system.
5. In the detail screen, under the Inbound parmrts, the following Message Type should appear along with the respective Process Code.

| Message type | Process Code |
|--------------|--------------|
| ALEAUD       | AUD2         |

**Note:** If there is any issue in generating the Partner Profile through BD82, then manually add the Partner Profiles through WE20.

## BAdl: Inbound Processing of ALE Audit Messages

1. Run t-code MDGIMG on the MDG system.
2. Path: Data Replication > Business Add-Ins (BAdls) > BAdl: Inbound Processing of ALE Audit Messages.  
This Business Add-In (BAdl) is used in the Data Replication Framework (CA-MDG-DRF) component.  
Use this BAdl during the inbound processing of Application Link Enabling (ALE) audit messages to complete the following tasks:
3. Map the ALE object type from an IDoc to an object identifier type defined in the Key Mapping of a target system.
4. Convert the external format of an ALE object ID to an internal format for an MDG object ID.

Implement this BAdl 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 BAdl Builder (t-code SE18).

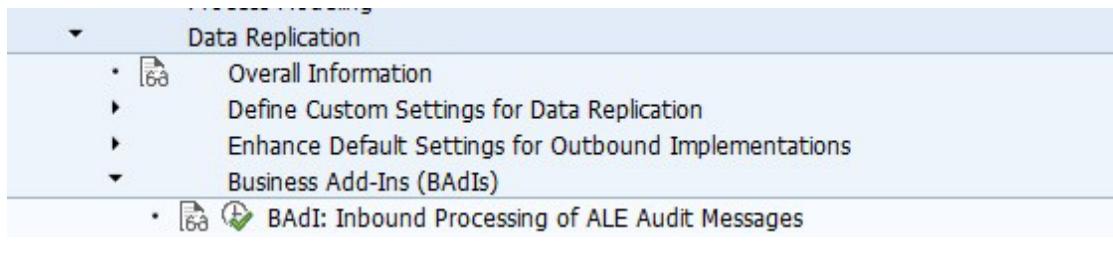
## Activities

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

## Implement the DRF\_ALE\_AUDIT enhancement spot

For <MDG hub Business system> and BO Type DRF\_0017, the Key Mapping information during ALE Audit processing must be written.

This is possible if the DRF\_ALE\_AUDIT enhancement spot is implemented.



For RFM object, default ALE Audit BADI implementations are already available.

### BAdI Implementation Details

- Enhancement implementation: /UGI4/MDG\_RFMRFM\_ALE\_AUDIT\_ART
- BAdI implementation for Article: /UGI4/MDG\_RFMRFM\_ALE\_AUDIT\_ART

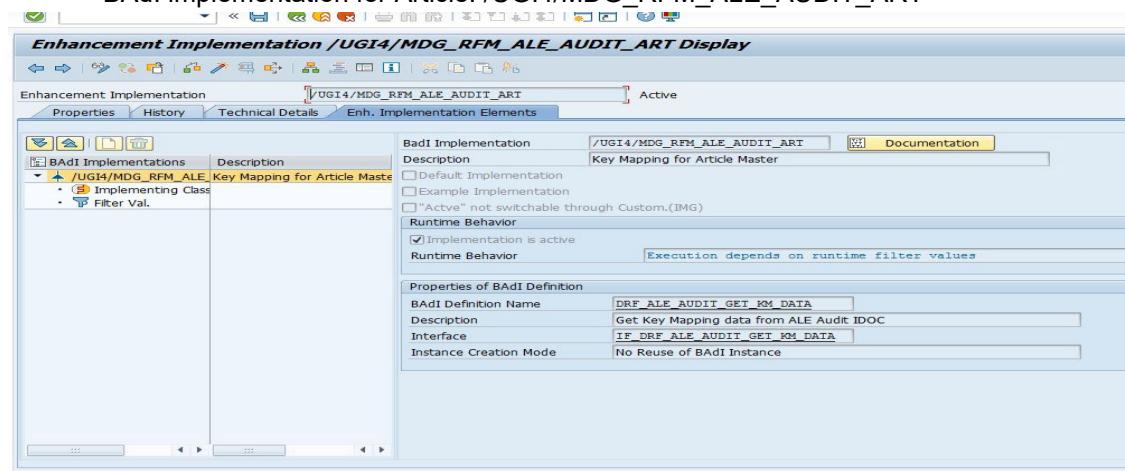


Figure 1: Enhancement Implementation: /UGI4/MDG\_RFMRFM\_ALE\_AUDIT\_ART

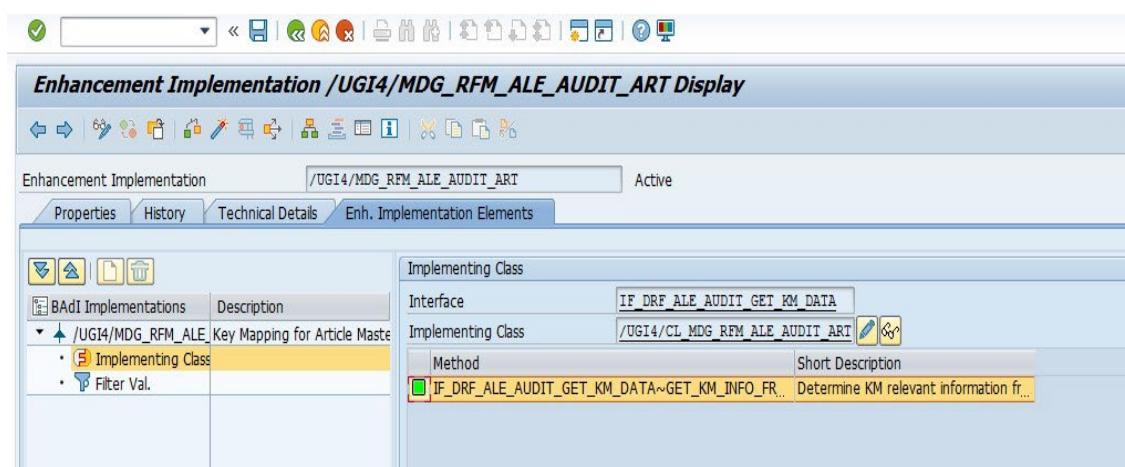


Figure 2: Implementing class for enhancement Implementation: /UGI4/MDG\_RFU\_ALE\_AUDIT\_ART

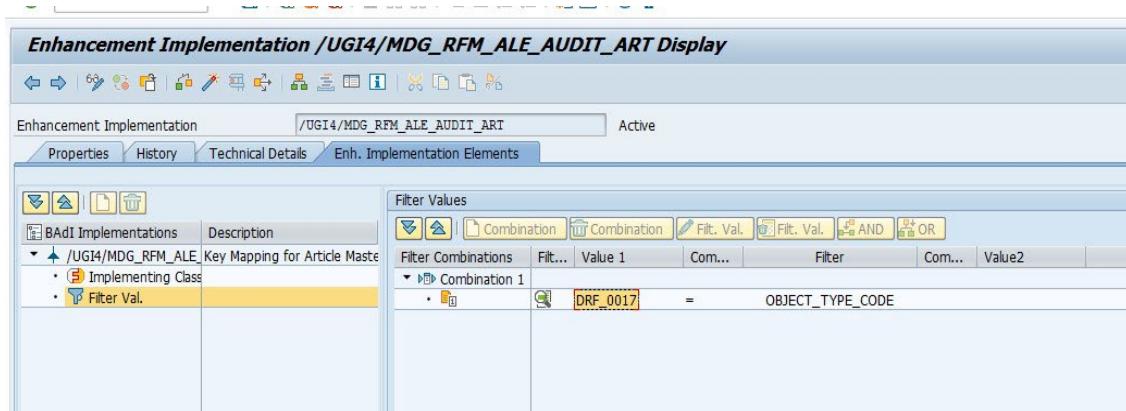


Figure 3: Filter values for enhancement Implementation: /UGI4/MDG\_RFU\_ALE\_AUDIT\_ART

### Example Code for Article

```
METHOD if_drf_ale_audit_get_km_data~get_km_info_from_audit_idoc.
    ev_km_object_id = iv_ale_obj_key+0(40).
    ev_oitc = 'ISR_ARTICLE'.
ENDMETHOD.
```

## Enhancement Required in the ARTMAS IDoc Inbound Function Module at the Target System/Receiver System

In the target system/receiver system, for the inbound function module IDOC\_INPUT\_ARTMAS, create an enhancement to populate the workflow parameter "Appl\_Objects" with the Article number as shown in following screen:

```
***$-Start: (1) -----
ENHANCEMENT 1 ZTEST_ARTMAS.      "active version
IF IDOC_STATUS-STATUS = '53'.
  R_VARIABLES-WF_PARAM = 'Appl_Objects'.
  R_VARIABLES-DOC_NUMBER = headdata-material.
  READ TABLE R_VARIABLES FROM R_VARIABLES.
    IF SY-SUBRC <> 0.
      APPEND R_VARIABLES.
    ENDIF.
    clear wf_result.
  ENDIF.
ENDENHANCEMENT.
***$-Ends: (1) -----
```

As the standard code does not return the Article number for the parameter 'Appl\_Objects', the enhancement is needed.

```

ENDIF.
IF error_flag IS INITIAL.
  write linked object keys
  CLEAR return_variables.
  return_variables-wf_param = 'Appl_Objects'.
  Manually adjustments regarding Note 1824837
  return_variables-doc_number = headdata-material_long. "note
  READ TABLE return_variables FROM return_variables.
  IF sy-subrc <> 0.
    APPEND return_variables.
  ENDIF.

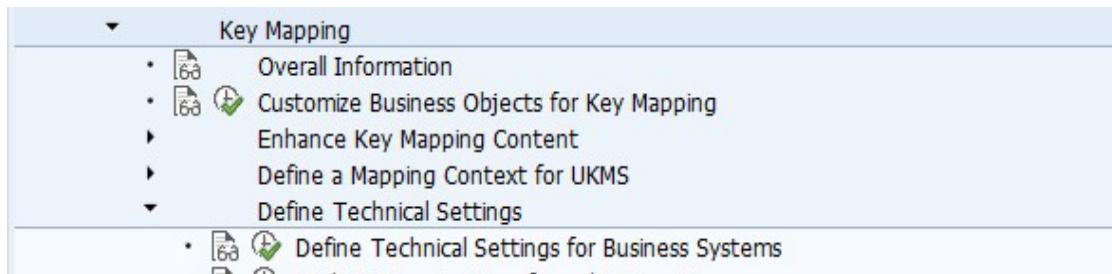
ENDIF.
ENDIF.

```

## Define Technical Settings for Business Systems

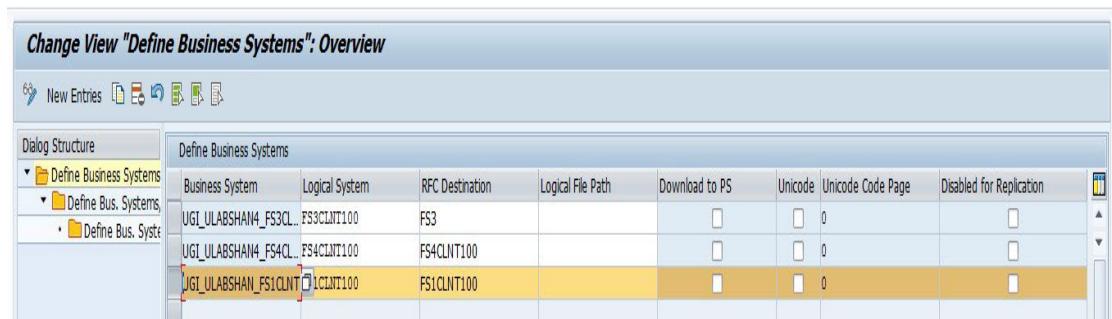
1. Run t-code MDGIMG.

Path: Key Mapping > Define Technical Settings > Define Technical Settings for Business Systems.



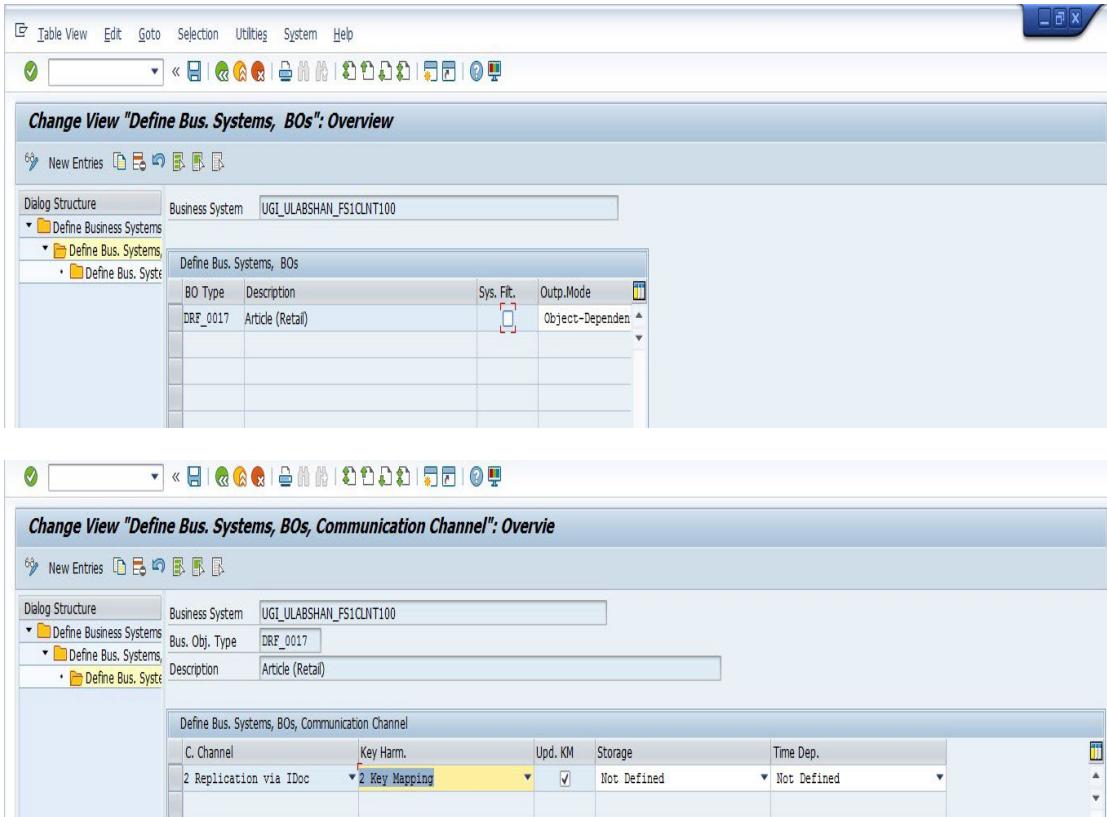
2. Add new entries to define Business Systems setting

- Business Systems: <Target Business System>
- Logical System: <Logical System name>
- RFC Connection: <RFC Destination name>



The screenshot shows the 'Change View "Define Business Systems": Overview' screen. The table lists the following entries:

| Business System | Logical System | RFC Destination | Logical File Path | Download to PS | Unicode | Unicode Code Page | Disabled for Replication |
| --- | --- | --- | --- | --- | --- | --- | --- |
| UGI\_ULABSHAN4\_FS3CL | FS3 |  |  |  |  | 0 |  |
| UGI\_ULABSHAN4\_FS4CL | FS4CLNT100 |  |  |  |  | 0 |  |
| UGI\_ULABSHAN\_FS1CLNT | FS1CLNT100 |  |  |  |  | 0 |  |



The top screenshot shows the "Change View 'Define Bus. Systems, BOs': Overview" screen. It displays a table titled "Define Bus. Systems, BOs" with columns: BO Type, Description, Sys. Fit., and Outp. Mode. A single entry is shown: DRF\_0017 Article (Retail) with Object-Dependent selected in the Outp. Mode column.

The bottom screenshot shows the "Change View 'Define Bus. Systems, BOs, Communication Channel': Overview" screen. It displays a table titled "Define Bus. Systems, BOs, Communication Channel" with columns: C. Channel, Key Harm., Upd. KM, Storage, and Time Dep. An entry for DRF\_0017 is selected, showing "2 Replication via IDoc" in the C. Channel column and "2 Key Mapping" in the Key Harm. column.

## Assign Business Objects to Main Contexts

1. Run t-code MDGIMG

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



The screenshot shows the "Change View 'Assign Business Objects to Main Contexts': Overview" table. The columns are BO Type, Description, Main Context, and Secondary Mapping Context. Several entries are listed, including Profit Center Group Hierarchy, Financial Accounting Chart of Accounts, and Cost Element Group Hierarchy. The entry DRF\_0017 Article (Retail) is highlighted with a yellow background, showing Material as the main context.

| BO Type  | Description   | Main Context                  | Secondary Mapping Context |
|----------|---|-------------------------------|---------------------------|
| 898      | Profit Center Group Hierarchy                         | ProfitCentreGroupHierarchy    |                           |
| 899      | Financial Accounting Chart of Accounts                | ChartOfAccounts               |                           |
| 900      | Financial Consolidation Chart of Accounts             | ChartOfAccounts               |                           |
| 901      | Financial Accounting Financial Reporting Structure    | FinancialReportingStructure   |                           |
| 902      | Financial Consolidation Financial Reporting Structure | FinancialReportingStructure   |                           |
| 904      | Financial Consolidation Group                         | FinancialConsolidationElement |                           |
| 905      | Financial Consolidation Unit                          | FinancialConsolidationElement |                           |
| 979      | Purchasing Functional Unit                            | OrgCenter                     | 1                         |
| 980      | Sales Functional Unit                                 | OrgCenter                     | 1                         |
| 983      | Cost Element  | CostElement                   |                           |
| 984      | Cost Element Group                                    | CostElementGroup              |                           |
| 985      | Cost Element Group Hierarchy                          | CostElementGroupHierarchy     |                           |
| DRF_0017 | Article (Retail)                                      | Material                      |                           |
| MDG_ADDR | Address   | Address                       |                           |

## Maintain Fields for IDoc Key Mapping

Transaction for Create Key Mapping: /UGI4/MDG\_RFMD\_KEY\_CR

| Stores ID mapping Data for relevant fields and segments |                  |          |                |
|---|------------------|----------|----------------|
| Field Name  | Segment type     | BO Type  | Object ID Type |
| MATERIAL  | E1BPE1MALGRTX    | DRF_0017 | ISR_ARTICLE    |
| MATERIAL  | E1BPE1MAMTRT     | DRF_0017 | ISR_ARTICLE    |
| MATERIAL  | E1BPE1MARAEXTRT  | DRF_0017 | ISR_ARTICLE    |
| MATERIAL  | E1BPE1MARAEXTRTX | DRF_0017 | ISR_ARTICLE    |
| MATERIAL  | E1BPE1MARARART   | DRF_0017 | ISR_ARTICLE    |
| MATERIAL  | E1BPE1MARCEXTRT  | DRF_0017 | ISR_ARTICLE    |
| MATERIAL  | E1BPE1MARCEXTRTX | DRF_0017 | ISR_ARTICLE    |
| MATERIAL  | E1BPE1MARCRT     | DRF_0017 | ISR_ARTICLE    |
| MATERIAL  | E1BPE1MARCRTX    | DRF_0017 | ISR_ARTICLE    |
| MATERIAL  | E1BPE1MARDEXTRT  | DRF_0017 | ISR_ARTICLE    |
| MATERIAL  | E1BPE1MARDEXTRTX | DRF_0017 | ISR_ARTICLE    |
| MATERIAL  | E1BPE1MARDRT     | DRF_0017 | ISR_ARTICLE    |
| MATERIAL  | E1BPE1MARDRTX    | DRF_0017 | ISR_ARTICLE    |
| MATERIAL  | E1BPE1MARMRT     | DRF_0017 | ISR_ARTICLE    |
| MATERIAL  | E1BPE1MARMRTX    | DRF_0017 | ISR_ARTICLE    |
| MATERIAL  | E1BPE1MATHEAD    | DRF_0017 | ISR_ARTICLE    |
| MATERIAL  | E1BPE1MAW1RT     | DRF_0017 | ISR_ARTICLE    |
| MATERIAL  | E1BPE1MAW1RTX    | DRF_0017 | ISR_ARTICLE    |
| MATERIAL  | E1BPE1MBEWEXTRT  | DRF_0017 | ISR_ARTICLE    |

**Note:** Parsing class /UGI4/CL\_MDG\_RFMD\_DATA\_PARSING uses this mapping table for achieving the Key Mapping.

The following table is the complete list of field name and segment type details that needs to be maintained for Key Mapping during the complete Article data replication.

| Field Name        | Segment type       | Business Object Type | Object ID Type |
|-------------------|--------------------|----------------------|----------------|
| ADDITIONAL_LONG   | E1BPE1WTA01        | DRF_0017             | ISR_ARTICLE    |
| FOLUP_ART_NR      | /UGI8/SUBSTITUTION | DRF_0017             | ISR_ARTICLE    |
| FOLUP_ART_NR_LONG | /UGI8/SUBSTITUTION | DRF_0017             | ISR_ARTICLE    |
| IDNRK             | E1STPOM            | DRF_0017             | ISR_ARTICLE    |
| IDNRK_EXTERNAL    | E1STPOM            | DRF_0017             | ISR_ARTICLE    |
| ID_COMP           | E1STPOM            | DRF_0017             | ISR_ARTICLE    |
| ID_COMP_EXTERNAL  | E1STPOM            | DRF_0017             | ISR_ARTICLE    |
| MATERIAL          | E1BPE1AUSPRT       | DRF_0017             | ISR_ARTICLE    |
| MATERIAL          | E1BPE1AUSPRTX      | DRF_0017             | ISR_ARTICLE    |
| MATERIAL          | E1BPE1BWAKEY       | DRF_0017             | ISR_ARTICLE    |
| MATERIAL          | E1BPE1LGNKEY       | DRF_0017             | ISR_ARTICLE    |
| MATERIAL          | E1BPE1LGOKEY       | DRF_0017             | ISR_ARTICLE    |
| MATERIAL          | E1BPE1LGTKEY       | DRF_0017             | ISR_ARTICLE    |

| Field Name | Segment type    | Business Object Type | Object ID Type |
|------------|-----------------|----------------------|----------------|
| MATERIAL   | E1BPE1MAKTRT    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MALGRT    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MALGRTX   | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MAMTRT    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MARAEXRT  | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MARAEXRTX | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MARART    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MARARTX   | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MARCEXRT  | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MARCEXRTX | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MARCRT    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MARCRT1   | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MARCRTX   | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MARDEXRT  | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MARDEXRTX | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MARDRT    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MARDRTX   | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MARMRT    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MARMRTX   | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MATHEAD   | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MAW1RT    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MAW1RTX   | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MBEWEXRT  | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MBEWEXRTX | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MBEWRT    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MBEWRTX   | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MEANRT    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MLANRT    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MLEART    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MLGNEXRT  | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MLGNRT    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MLGNRTX   | DRF_0017             | ISR_ARTICLE    |

| Field Name | Segment type     | Business Object Type | Object ID Type |
|------------|------------------|----------------------|----------------|
| MATERIAL   | E1BPE1MLGTEXTRTX | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MLGTRT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MLGTRTX    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MLTXRT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MPGDRT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MPGDRTX    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MPOPRT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MPOPRTX    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MPRWRT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MVEGRT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MVEURT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MVKEEXRT   | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MVKEEXRTX  | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MVKERT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1MVKERTX    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1VARKEY     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1VTLKEY     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1WLK2EXTRT  | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1WLK2EXTRTX | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1WLK2RTX    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1WRKKEY     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPE1WTA01      | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPFSHSEASONS   | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPSGTMADKA     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPSGTMARM      | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPSGTMGLN      | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPSGTMGLT      | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPSGTMRP       | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPSGTMRPGN     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPSGTMVKE      | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPTEXTLCOMP    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL   | E1BPTEXTLFIBR    | DRF_0017             | ISR_ARTICLE    |

| Field Name    | Segment type     | Business Object Type | Object ID Type |
|---------------|------------------|----------------------|----------------|
| MATERIAL_LONG | E1BPE1AUSPRT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1AUSPRTX    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1BWAKEY     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1LGNKEY     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1LGOKEY     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1LGTKEY     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MAKTRT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MALGRT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MALGRTX    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MAMTRT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MARAEXTRT  | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MARAEXTRTX | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MARART     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MARART1    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MARARTX    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MARCEXTRT  | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MARCEXTRTX | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MARCRT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MARCRT1    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MARCRTX    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MARDEXTRT  | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MARDEXTRTX | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MARDRT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MARDRTX    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MARMRT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MARMRTX    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MATHEAD    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MAW1RT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MAW1RTX    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MBEWEXTRT  | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MBEWEXTRTX | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MBEWRT     | DRF_0017             | ISR_ARTICLE    |

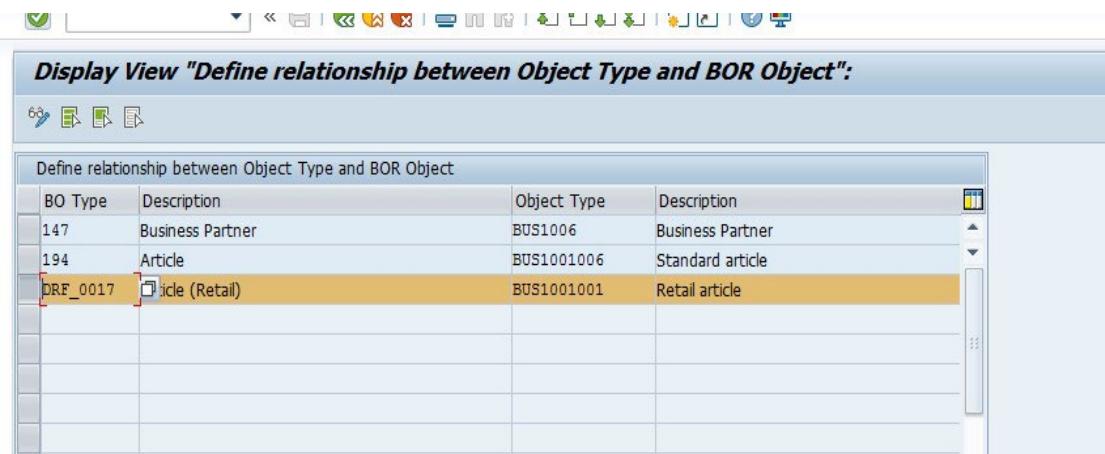
| Field Name    | Segment type     | Business Object Type | Object ID Type |
|---------------|------------------|----------------------|----------------|
| MATERIAL_LONG | E1BPE1MBEWRTX    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MEANRT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MLANRT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MLEART     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MLGNEXTRT  | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MLGNEXTRTX | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MLGNRT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MLGNRTX    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MLGTEXTRTX | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MLGTRT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MLGTRTX    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MLTXRT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MPGDRT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MPGDRTX    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MPOPRT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MPOPRTX    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MPRWRT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MVEGRT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MVEURT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MVKEEXTRT  | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MVKEEXTRTX | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MVKERT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1MVKERTX    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1VARKEY     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1VTLKEY     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1WLK2EXTRT  | DRF_0017             | ISR_ARTICLE    |
| MATERIAL      | E1BPE1WLK2RT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1WLK2RT     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1WLK2RTX    | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1WRKKEY     | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1WTA01      | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPFSHSEASONS   | DRF_0017             | ISR_ARTICLE    |

| Field Name           | Segment type       | Business Object Type | Object ID Type |
|----------------------|--------------------|----------------------|----------------|
| MATERIAL_LONG        | E1BPSGTMADKA       | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG        | E1BPSGTMARM        | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG        | E1BPSGTMMLGN       | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG        | E1BPSGTMMLGT       | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG        | E1BPSGTMRP         | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG        | E1BPSGTMRPGN       | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG        | E1BPSGTMVKE        | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG        | E1BPTEXTLCOMP      | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG        | E1BPTEXTLFIBR      | DRF_0017             | ISR_ARTICLE    |
| MATNR                | /UGI8/ARTHIER_ASST | DRF_0017             | ISR_ARTICLE    |
| MATNR                | /UGI8/LAYMOD_HDR   | DRF_0017             | ISR_ARTICLE    |
| MATNR                | E1EINAM            | DRF_0017             | ISR_ARTICLE    |
| MATNR                | E1MASTM            | DRF_0017             | ISR_ARTICLE    |
| MATNR                | E1MATNR            | DRF_0017             | ISR_ARTICLE    |
| MATNR                | E1T415B            | DRF_0017             | ISR_ARTICLE    |
| MATNR_LONG           | /UGI8/ARTHIER_ASST | DRF_0017             | ISR_ARTICLE    |
| MATNR_LONG           | /UGI8/LAYMOD_HDR   | DRF_0017             | ISR_ARTICLE    |
| MATNR_LONG           | E1EINAM            | DRF_0017             | ISR_ARTICLE    |
| MATNR_LONG           | E1MASTM            | DRF_0017             | ISR_ARTICLE    |
| MATNR_LONG           | E1MATNR            | DRF_0017             | ISR_ARTICLE    |
| MATNR_LONG           | E1T415B            | DRF_0017             | ISR_ARTICLE    |
| ORIGINAL_ART_NR      | /UGI8/SUBSTITUTION | DRF_0017             | ISR_ARTICLE    |
| ORIGINAL_ART_NR_LONG | /UGI8/SUBSTITUTION | DRF_0017             | ISR_ARTICLE    |
| STRNR                | E1WLK1M            | DRF_0017             | ISR_ARTICLE    |
| STRNR_LONG           | E1WLK1M            | DRF_0017             | ISR_ARTICLE    |
| VARIANT              | E1BPE1VARKEY       | DRF_0017             | ISR_ARTICLE    |
| VARIANT_LONG         | E1BPE1VARKEY       | DRF_0017             | ISR_ARTICLE    |
| OBJEK                | E1OCLFM            | DRF_0017             | ISR_ARTICLE    |
| OBJEK_LONG           | E1OCLFM            | DRF_0017             | ISR_ARTICLE    |
| MATNR                | E1BP_WRPL_IMPORT   | DRF_0017             | ISR_ARTICLE    |
| MATNR_LONG           | E1BP_WRPL_IMPORT   | DRF_0017             | ISR_ARTICLE    |
| MATNR                | E1EORDH            | DRF_0017             | ISR_ARTICLE    |

| Field Name    | Segment type  | Business Object Type | Object ID Type |
|---------------|---------------|----------------------|----------------|
| MATNR_LONG    | E1EORDH       | DRF_0017             | ISR_ARTICLE    |
| MATERIAL      | E1BPE1CUCFGRT | DRF_0017             | ISR_ARTICLE    |
| MATERIAL      | E1BPE1CUCOMRT | DRF_0017             | ISR_ARTICLE    |
| MATERIAL      | E1BPE1CUINSRT | DRF_0017             | ISR_ARTICLE    |
| MATERIAL      | E1BPE1CUVALRT | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1CUCFGRT | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1CUCOMRT | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1CUINSRT | DRF_0017             | ISR_ARTICLE    |
| MATERIAL_LONG | E1BPE1CUVALRT | DRF_0017             | ISR_ARTICLE    |

## Define Relationships Between Object Type and BOR object

- **Table:** MDGD\_OTC\_BOR
- **View:** MDGV\_OTC\_BOR



| Define relationship between Object Type and BOR Object |                  |             |                  |
|--|------------------|-------------|------------------|
| BO Type  | Description      | Object Type | Description      |
| 147  | Business Partner | BUS1006     | Business Partner |
| 194  | Article          | BUS1001006  | Standard article |
| DRF_0017   | Article (Retail) | BUS1001001  | Retail article   |

**Note:** If the specified mapping is not done, the ALEAUDIT BAdI will not be triggered.

## Trigger the ALE AUDIT for the Message (Output) Type

Use the following steps to trigger ALE Audit for the Message Type:

1. Schedule the report RBDSTATE as a background job in target system on a regular basis.
2. Check transaction MDG\_KM\_MAINTAIN for the Key Mapping entries in hub system (MDG system).

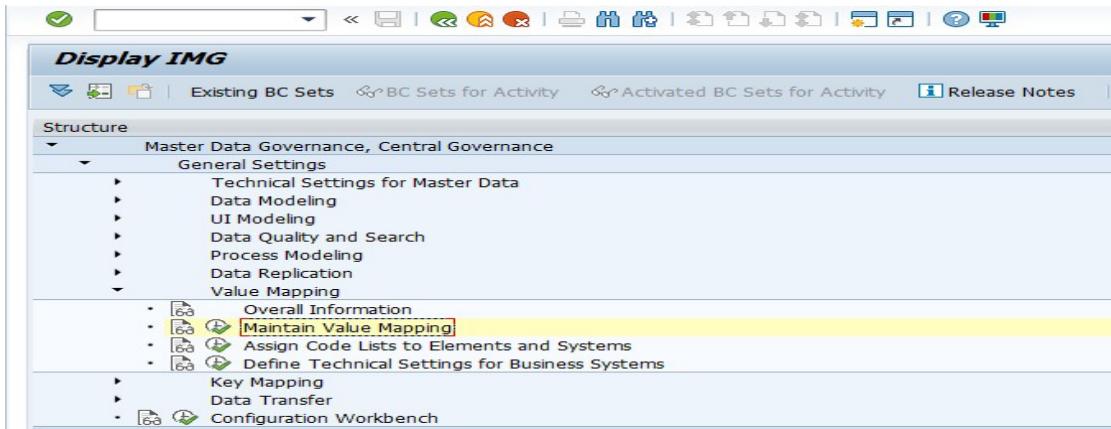
## Value Mapping

**Note:** Value Mapping would work only when the “KEY MAPPING” setting is enabled. The sequence of steps for settings are explained in the following section:

## Maintain Value Mapping

- Run t-code VMIM. The following screen is displayed.

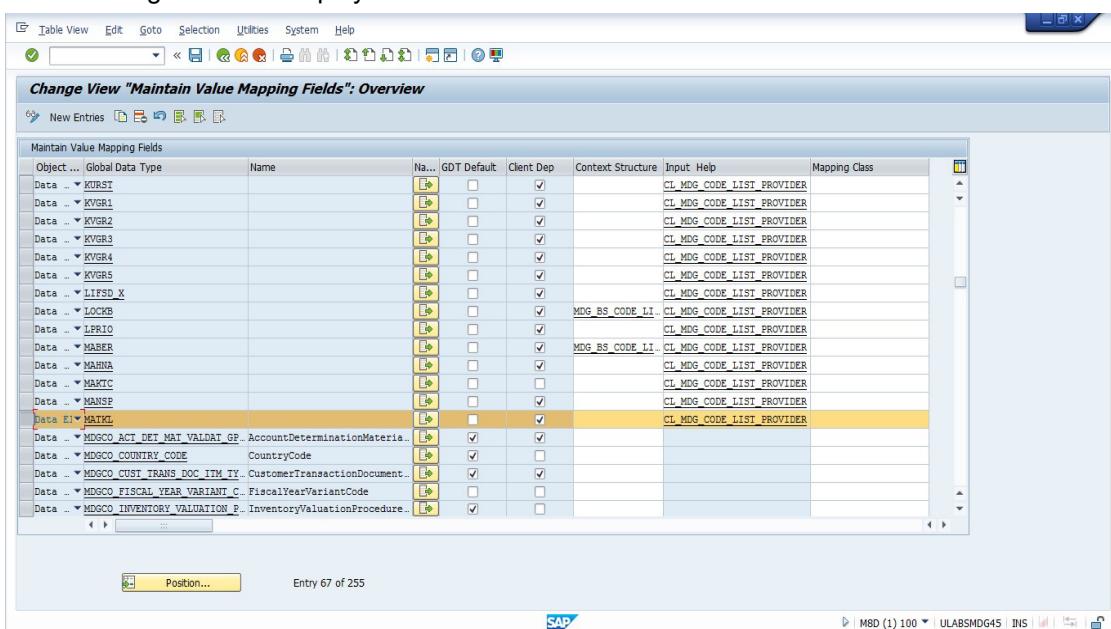
Path: Value Mapping > Maintain Value Mapping



Use the following steps to maintain Value Mapping:

- Execute "Maintain Value Mapping Fields".

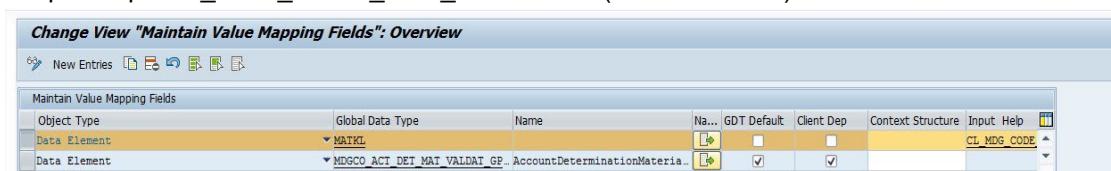
The following screen is displayed.



This screenshot shows the 'Change View "Maintain Value Mapping Fields": Overview' screen. It displays a table of value mapping fields. One row is selected, highlighting the 'MAKTL' field under 'Object ...'. The table includes columns for Object Type, Global Data Type, Name, Na..., GDT Default, Client Dep, Context Structure, Input Help, and Mapping Class. The 'Input Help' column for the selected row shows 'CL\_MDG\_CODE\_LIST\_PROVIDER'.

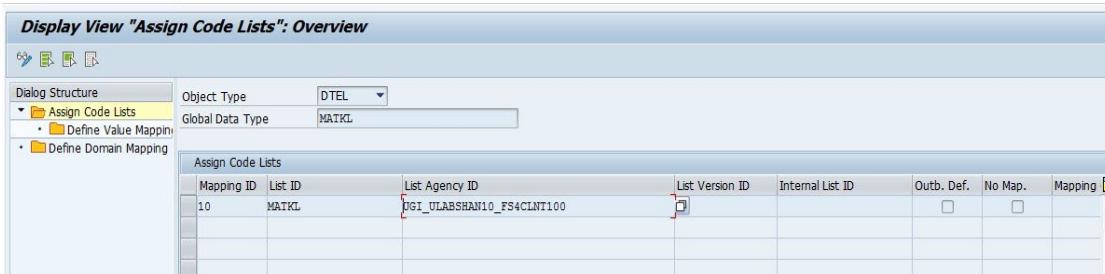
- Click on New Entries and add following details:

- Object type – DTEL Data Element
- Global Data Type – MAKTL (field's Data Element for which Value Mapping to be maintained)
- Client Dependent – choose tick mark
- Input help - CL\_MDG\_CODE\_LIST\_PROVIDER (standard class)



This screenshot shows the same 'Change View "Maintain Value Mapping Fields": Overview' screen after adding a new entry. The new entry is highlighted in yellow and has the following details: Object Type 'Data Element', Global Data Type 'MAKTL', and Input Help 'CL\_MDG\_CODE\_LIST\_PROVIDER'.

3. Click on the “Navigation” button for Display mapping relationships as indicated by arrow in the above screen.
4. In the Assign Code Lists, add the following details:
  - Mapping ID – 1 (any number)
  - List Agency ID - < MDG Hub business system>
  - List ID – MATKL (field’s Data Element for which VM to be maintained)

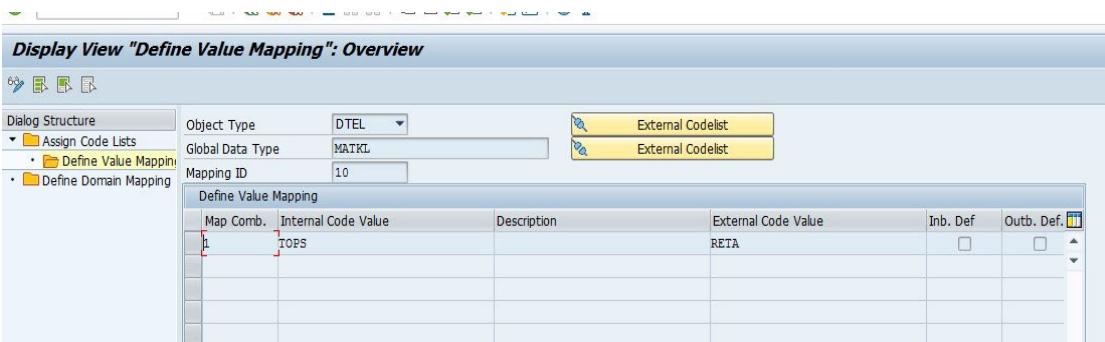


| Mapping ID | List ID | List Agency ID            | List Version ID | Internal List ID | Outb. Def.               | No Map.                  | Mapping                             |
|------------|---------|---------------------------|-----------------|------------------|--------------------------|--------------------------|-------------------------------------|
| 10         | MATKL   | UGI_ULABSHAN10_FS4CLNT100 |                 |                  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

5. Choose the Mapping ID record maintained in above step and click on Define Value Mapping for Mapping ID created in above step.

The following details should be entered to define Value Mapping:

- Mapping combination – 1 (any number)
- Internal Code Value – TOPS (Code value on MDG Hub)
- External Code Value – RETA (Code value in External Code List)



| Map Comb. | Internal Code Value | Description | External Code Value | Inb. Def                 | Outb. Def                |
|-----------|---------------------|-------------|---------------------|--------------------------|--------------------------|
| 1         | TOPS                |             | RETA                | <input type="checkbox"/> | <input type="checkbox"/> |

## Assign Code Lists to Elements and Systems

1. Run t-code VMIMG.

The following screen is displayed.

Path: Value Mapping > Assign Code Lists to Elements and Systems



## 2. Execute Assign Code Lists to Elements and Systems:

- Type – DTEL Data Element
- Global Data Type – VM field's Data Element
- Business System – <Target business system >
- List ID – MATKL (Field's Data Element for which VM is maintained)
- List Agency ID - < MDG Hub Business system >

| Change View "Assign Code Lists to Elements and Systems": Overview |            |                  |                          |                           |                 |
|---|------------|------------------|--------------------------|---------------------------|-----------------|
| Type  | Global ... | Internal List ID | Business System          | List Agency ID            | List Version ID |
| Data... ▾ MATKL   |            |                  | UGI_ULABSHAN4_FS4CLNT100 | UGI_ULABSHAN_FS1CLNT100   |                 |
| Data... ▾ MATKL   |            |                  | UGI_ULABSHAN_FS1CLNT100  | UGI_ULABSHAN10_FS4CLNT100 |                 |
|   |            |                  |                          |                           |                 |
|   |            |                  |                          |                           |                 |
|   |            |                  |                          |                           |                 |

## Field and Segment Name Maintenance for Value Mapping

### 1. Run t-code /UGI4/MDG\_RFV\_VAL\_CR

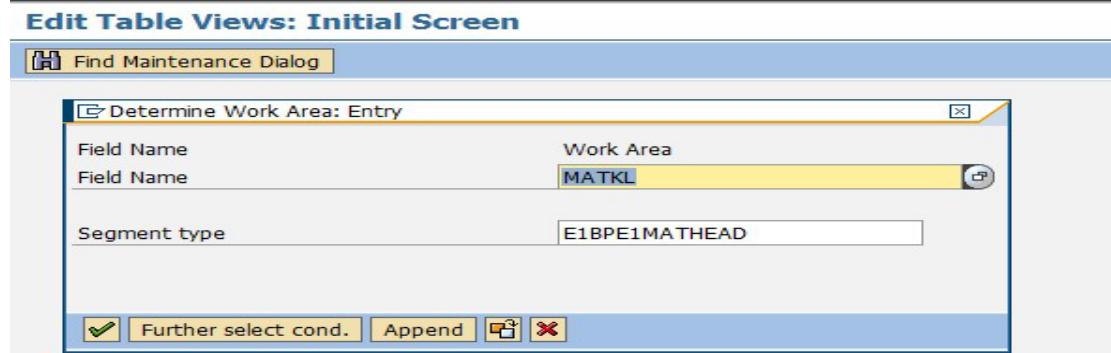
| Change View "Stores Value mapping Data for relevant fields and segments" |               |          |                  |  |
|--|---------------|----------|------------------|--|
| Field Name   | Segment type  | Obsolete | Global Data Type |  |
| MATL_GROUP   | E1BPE1MATHEAD | DTEL     | MATKL            |  |
|  |               |          |                  |  |
|  |               |          |                  |  |
|  |               |          |                  |  |

Maintain an entry for field MATKL which requires Value Mapping by providing its corresponding IDoc Segment Structure along with its Data Element (which is defined as Global Data Type) as shown in the screen.

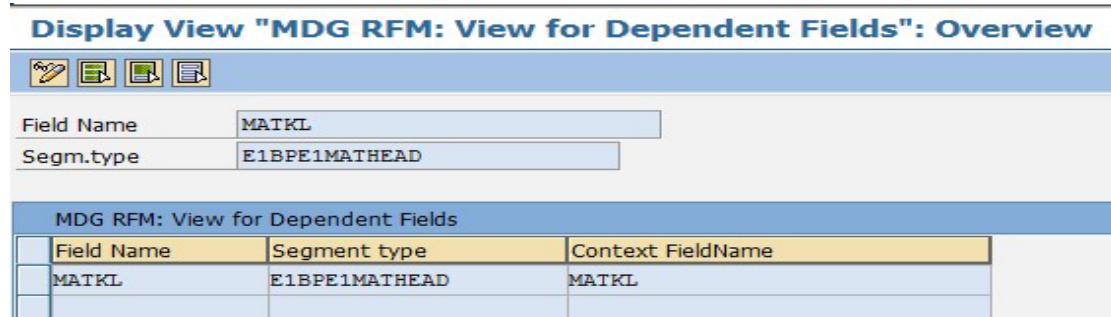
## Context Dependent Data Maintenance for Value Mapping

### 1. Run t-code /UGI4/MDG\_RFV\_VALD

2. Enter the field name as 'MAKTL' and Segment Type as 'E1BPE1MATHEAD' as shown in the following image and click on "Continue".



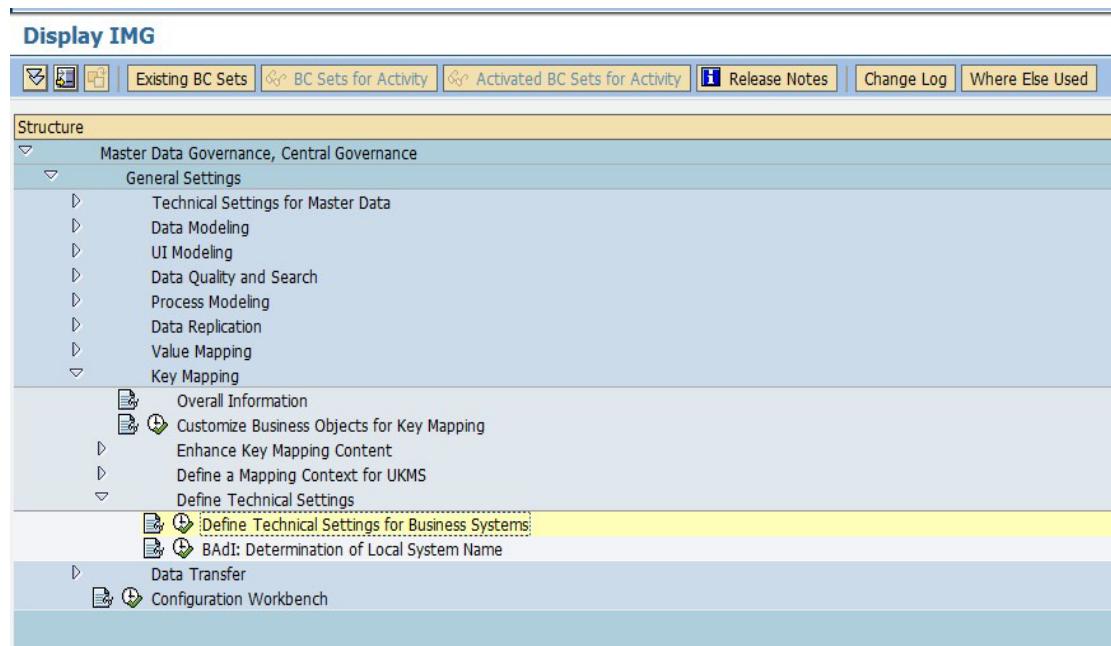
Maintain the Context Field Name for the dependent fields as shown in the following screen.



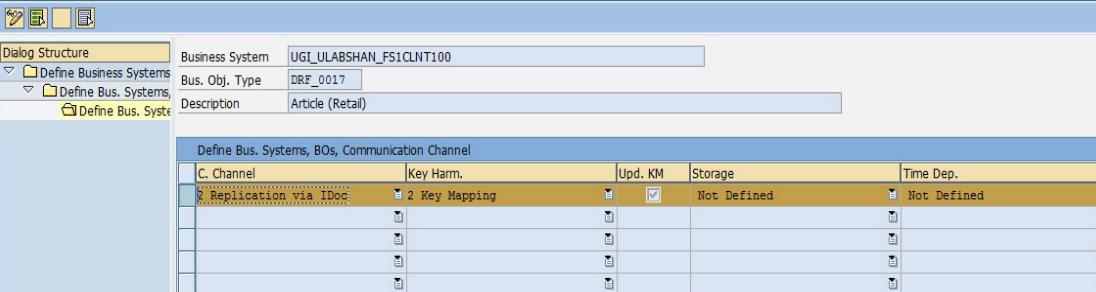
## DRF Replication Process with Key Mapping

Use the following steps to execute the DRF Replication process with Key Mapping:

1. Make sure the Key Mapping configuration is set to Key Mapping in the MDGIMG for the target Business System.



**Display View "Define Bus. Systems, BOs, Communication Channel": Overview**



| C. Channel           | Key Harm.     | Upd. KM                             | Storage     | Time Dep.   |
|----------------------|---------------|-------------------------------------|-------------|-------------|
| Replication via IDoc | 2 Key Mapping | <input checked="" type="checkbox"/> | Not Defined | Not Defined |

## 2. Choose an Article that needs to be replicated.

In the following example an Article selected along with Article Hierarchy details.

**RFM ( Retail and Fashion Management ) - Internet Explorer**

Article: 12207, Test Article for DRF - Key Mapping - (FMS\_Trading Goods / Boys Casual pants / Single article)

Save | Cancel | Edit | Expand All | Collapse All | Assignment Block:

Basic Data | Additional Data | Components | Listing | Successor/Substitute Material

Article: 12207 Article Category: 00 Single article

**Groupings**

Merchandise Category: MC230102 Boys Casual pants Article Type: ZFMS FMS\_Trading Goods  
 Industry sector: 1 Retail Division:  
 Product Hierarchy:   
 Authorization Group:  
 Pricing Ref. Article:  
 Price Band Category:  
**General Data**

Valuation Class: 3100 Trading goods Discount in kind: Not eligible for discount in kind  
 Country of origin: Region of origin:  
 Comm./Imp. code no.: Old article number:  
 With empties BOM: Haz. material number:  
**Internal Logistics Data**

Purchasing Group: Assortment List Type:  
 Source of supply: Procurement rule: Order as required  
 Transportation Group: Loading Group: 0001 Crane  
 Article Grp Pack.Matts: Gen. item cat. grp: NORM Standard item

**RFM ( Retail and Fashion Management ) - Internet Explorer**

Article: 12207, Test Article for DRF - Key Mapping - (FMS\_Trading Goods / Boys Casual pants / Single article) - Sales Area UTPI / 20

Done | Check | Expand All | Collapse All | Assignment Block:

Delivering Site:

Sales Texts | New

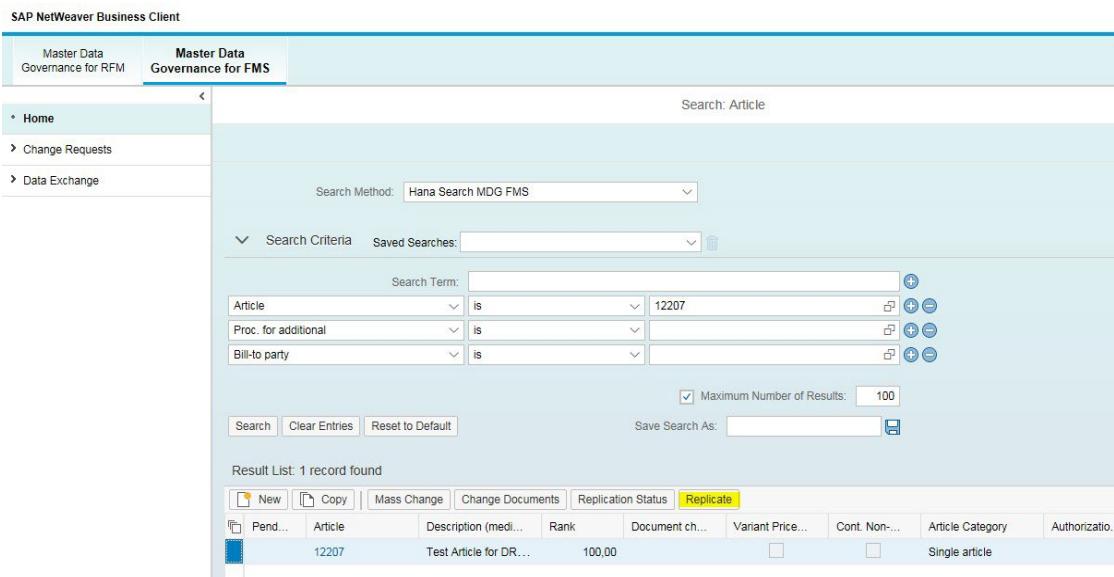
| Actions           | Language Key | Language Key Description |
|-------------------|--------------|--------------------------|
| No data available |              |                          |

**Assignment to Article Hierarchy** | New

Hierarchy: M5 Test\_DCh hier level2

| Actions   | Hierarchy | Category | Description | Hierarchy Node | Description | Main Assignment                     |
|---|-----------|----------|-------------|----------------|-------------|-------------------------------------|
|  | M5        | L11      | Level2      | L11111         | Level4      | <input checked="" type="checkbox"/> |
|  | M5        | L22      | level2      | L22222         | Level4      | <input type="checkbox"/>            |

3. Search for the Article from the Search screen.
4. Select the Article and click on Replicate.



SAP NetWeaver Business Client

Master Data Governance for RFM    Master Data Governance for FMS

Home    Change Requests    Data Exchange

Search: Article

Search Method: Hana Search MDG FMS

Search Criteria    Saved Searches:

Search Term: Article is 12207

Proc. for additional is

Bill-to party is

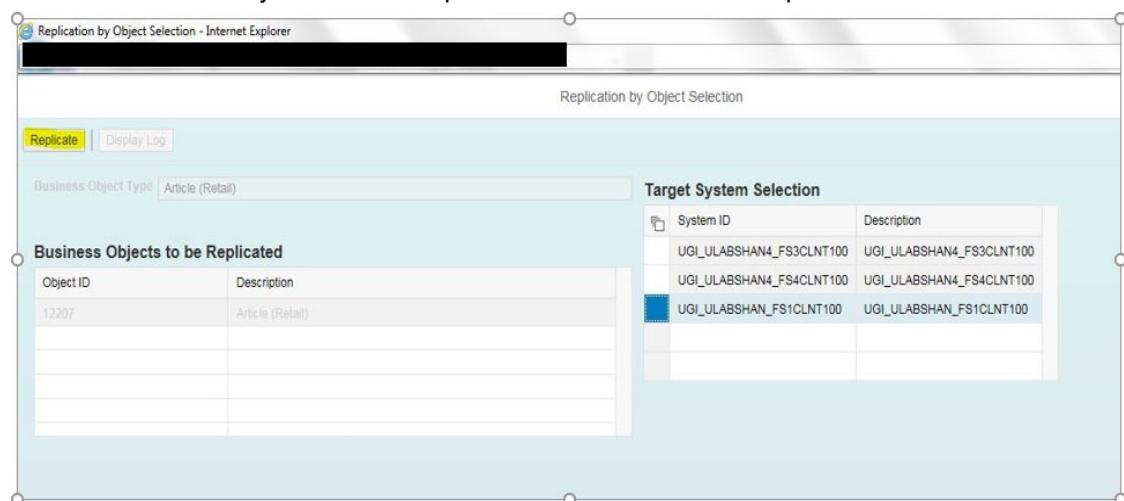
Maximum Number of Results: 100

Search    Clear Entries    Reset to Default    Save Search As:

Result List: 1 record found

| Pend... | Article | Description (medi...)  | Rank   | Document ch... | Variant Price... | Cont. Non... | Article Category | Authorizatio... |
|---------|---------|------------------------|--------|----------------|------------------|--------------|------------------|-----------------|
|         | 12207   | Test Article for DR... | 100.00 |                |                  |              |                  | Single article  |

5. Select the Business System for the replication and click on the “Replicate” button.



Replication by Object Selection - Internet Explorer

Replication by Object Selection

Replicate    Display Log

Business Object Type: Article (Retail)

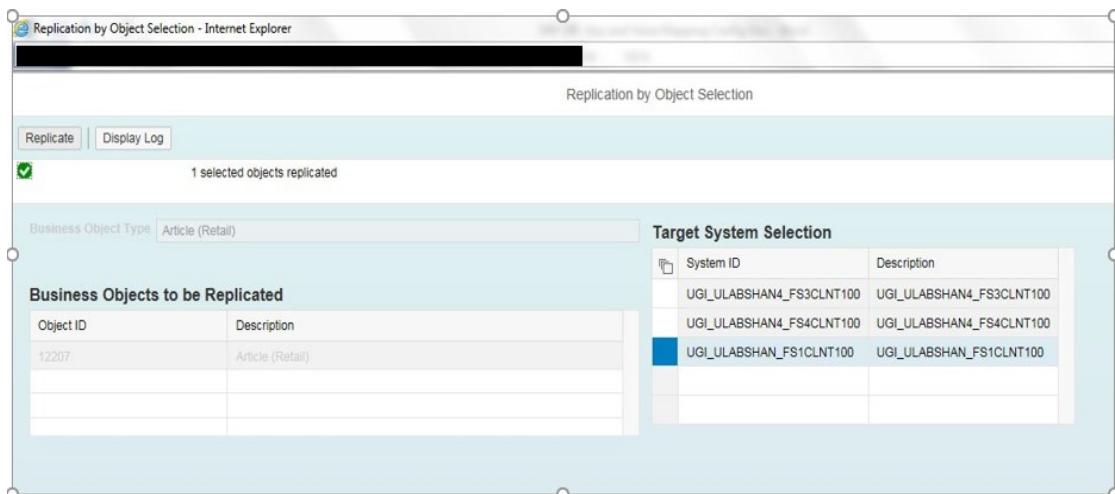
**Business Objects to be Replicated**

| Object ID | Description      |
|-----------|------------------|
| 12207     | Article (Retail) |

**Target System Selection**

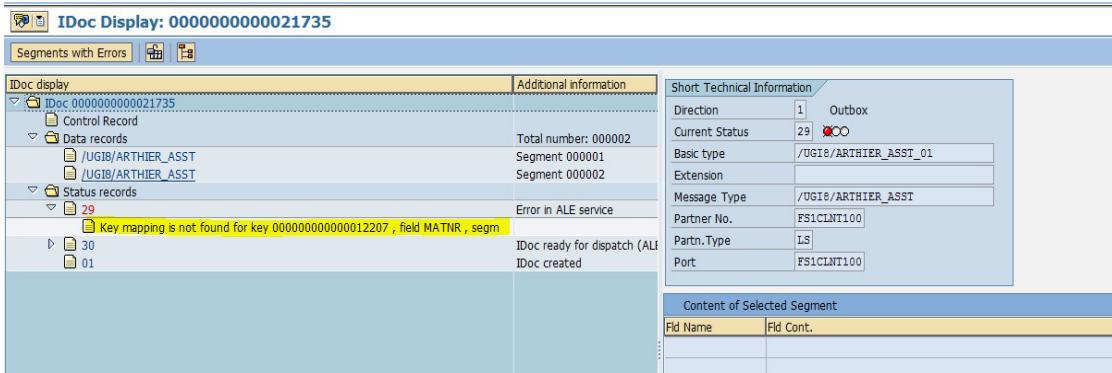
| System ID                | Description              |
|--------------------------|--------------------------|
| UGI_ULABSHAN4_FS3CLNT100 | UGI_ULABSHAN4_FS3CLNT100 |
| UGI_ULABSHAN4_FS4CLNT100 | UGI_ULABSHAN4_FS4CLNT100 |
| UGI_ULABSHAN_FS1CLNT100  | UGI_ULABSHAN_FS1CLNT100  |

Replication is completed.



6. The Article outbound IDoc processing is triggered.
7. As per the design for DRF Key Mapping in the Mapper BAdl Implementation, System checks for Key Mapping for Article IDoc segments data as defined in the configuration table /UGI4/MDG\_T\_KEY mentioned in the earlier steps.
8. If the Key Mapping is found, then the respective mapped Article number is replaced in the outbound IDoc segments and the IDoc is processed. This may be the case during the Change scenario.
9. Being the first-time replication of the Article, Key Mapping is not found for the original Article in the outgoing IDoc segment. Hence, the Article outbound IDoc is processed as it is without any change in the segment data
10. The dependent objects IDoc processing is triggered in sequence.
11. The Mapper BAdl implementation checks the Key Mapping for the dependent object IDoc segments data as defined in the configuration table /UGI4/MDG\_T\_KEY.
12. If the Key Mapping is found, then the respective mapped Article number is replaced in the outbound segments for the dependent object IDocs and the outbound IDoc is processed. This may be the case for Change scenario.
13. Being the first-time replication of the Article, Key Mapping is not found for the Article number in the dependent object outbound IDoc. In this case, the dependent object outbound IDoc is failed with the status '29' with the respective error message in the IDoc.

| IDoc List        |         |                                   |         |             |              |            |            |            |           |            |
|------------------|---------|-----------------------------------|---------|-------------|--------------|------------|------------|------------|-----------|------------|
| IDocs            |         | IDoc                              |         |             |              |            |            |            |           |            |
| Selected IDocs   |         | Outbound IDocs /UGI8/ARTHIER_ASST |         |             |              |            |            |            |           |            |
| IDoc Number      | Segm... | Stat...                           | Stat... | Partner     | Basic type   | Created On | Created at | Messg.T... | Direction | Port       |
| 0000000000021653 | 1 03    | OO                                | LS/     | /FS1CLNT100 | /UGI8/ART... | 05.01.2017 | 01:21:26   | /UGI8/...  | Outbox    | FS1CLNT100 |
| 0000000000021697 | 2 03    | OO                                | LS/     | /FS1CLNT100 | /UGI8/ART... | 05.01.2017 | 01:52:51   | /UGI8/...  | Outbox    | FS1CLNT100 |
| 0000000000021735 | 2 29    | OO                                | LS/     | /FS1CLNT100 | /UGI8/ART... | 05.01.2017 | 02:14:07   | /UGI8/...  | Outbox    | FS1CLNT100 |

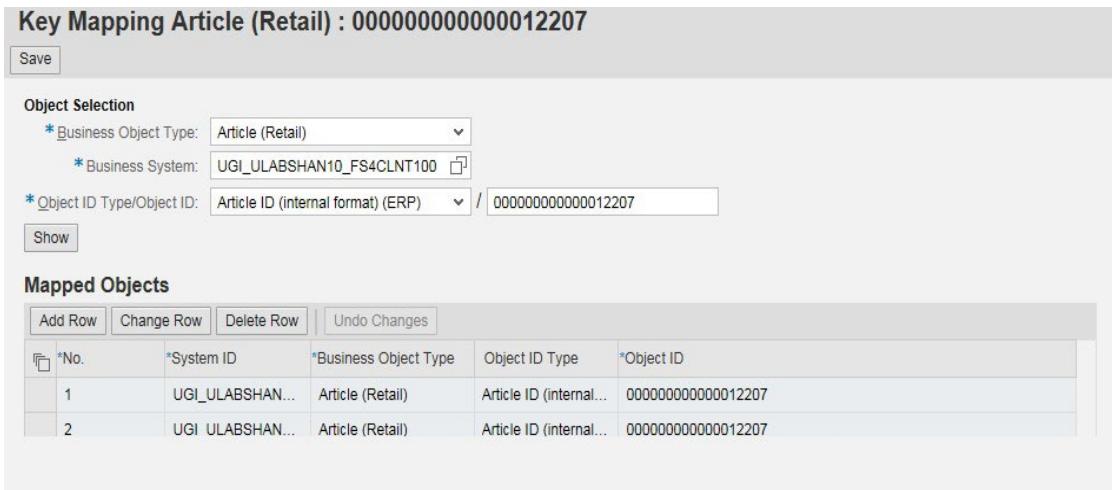


The screenshot shows the SAP IDoc Display interface for IDoc 00000000000021735. The left pane lists segments: Control Record, Data records (UGI8/ARTHIER\_ASST, UGI8/ARTHIER\_ASST), Status records (29), and 30, 01. The right pane shows 'Additional information' and 'Short Technical Information'. The 'Additional information' section includes fields like Total number: 000002, Segment 00001, Segment 00002, and Error in ALE service. The 'Short Technical Information' section includes fields like Direction (1 Outbox), Current Status (29 COO), Basic type (/UGI8/ARTHIER\_ASST\_01), Extension, Message Type (/UGI8/ARTHIER\_ASST), Partner No. (FS1CLNT100), Partn.Type (LS), and Port (FS1CLNT100). A yellow box highlights the error message: 'Key mapping is not found for key 00000000000012207, field MATNR, segm'.

- Once the Article inbound IDoc is processed in the target Business System, the Article gets created.

**Note:** This Article will not have the dependent objects data like BOM, Substitutions, and Article Hierarchy etc. in it as they are yet to be created with the dependent objects IDocs processing.

- As the RBDSTATE program must be running periodically as a batch job in the target system, it sends the ALE Audit confirmation via ALE Audit outbound IDoc with the Article number created in this target business system. This then creates the Key Mapping in the MDG system. This can be verified using the transaction MDG\_KM\_MAINTAIN in the MDG system.

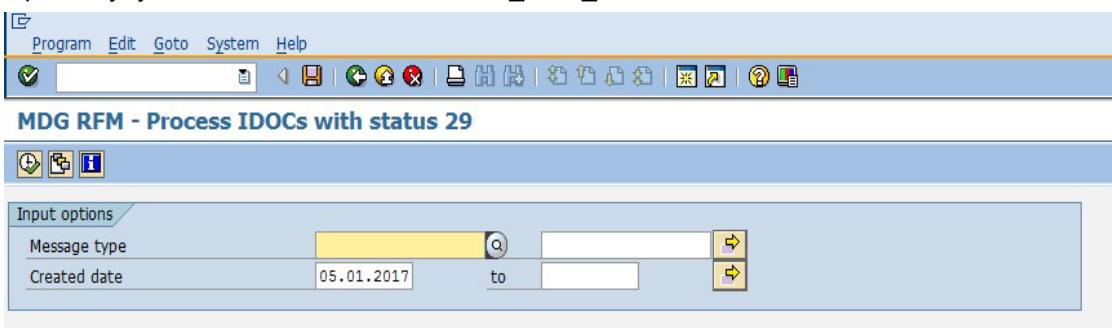


The screenshot shows the 'Key Mapping Article (Retail)' transaction for Article ID 00000000000012207. The 'Object Selection' section includes fields for Business Object Type (Article (Retail)), Business System (UGI\_ULABSHAN10\_FS4CLNT100), and Object ID Type/Object ID (Article ID (internal format) (ERP)). The 'Mapped Objects' section shows a table with two rows, both mapping Article ID (internal format) to Article ID (internal format). The table has columns: \*No., \*System ID, \*Business Object Type, Object ID Type, and \*Object ID.

| *No. | *System ID      | *Business Object Type | Object ID Type           | *Object ID        |
|------|-----------------|-----------------------|--------------------------|-------------------|
| 1    | UGI_ULABSHAN... | Article (Retail)      | Article ID (internal...) | 00000000000012207 |
| 2    | UGI_ULABSHAN... | Article (Retail)      | Article ID (internal...) | 00000000000012207 |

- Schedule a background job for the program /UGI4/MDG\_RFMD PROCESS\_IDOC to run periodically in MDG hub system to reprocess the failed dependent outbound IDocs (status 29) until the IDoc s processed successfully (status 03).

Optionally, you can use t-code /UGI4/MDG\_RFMD\_IDOC.



The screenshot shows the 'MDG RFM - Process IDOCs with status 29' transaction. The top menu bar includes Program, Edit, Goto, System, Help. The input options section includes fields for Message type and Created date (05.01.2017 to). There are also icons for search, clear, and execute.

IDoc is completely reprocessed.

### MDG RFM - Process IDOCs with status 29

```
MDG RFM - Process IDOCs with status 29

***** Success messages *****
IDOC# 0000000000021735 for message type# /UGI8/ARTHIER_ASST reprocessed successfully !!!

***** Error messages *****
Key mapping not found for key# 00000000000011384 field# MATNR segment# /UGI8/ARTHIER_ASST
Key mapping not found for key# 00000000000011384 field# MATNR segment# /UGI8/ARTHIER_ASST
```

The Article in the target system is changed with the additional information like BOM, Substitutions, and Article Hierarchy, etc.

**Display Material 12207 (Basic Data)**

| Material                         |         | Test Article for DRF - Key Mapping |     |     |      |     |     |         |    |    |   | Single mat... |  |
|----------------------------------|---------|------------------------------------|-----|-----|------|-----|-----|---------|----|----|---|---------------|--|
| 12207                            |         |                                    |     |     |      |     |     |         |    |    |   |               |  |
| Units of measure/EANs/dimensions |         |                                    |     |     |      |     |     |         |    |    |   |               |  |
| A...                             | <...    | Number                             | LUn | BUn | O... | D/I | SUn | EAN/UPC | Ct | AP | A | Gross Weight  |  |
| EA                               | <-1,000 | EA                                 |     |     |      |     |     |         |    |    |   | 0             |  |
| Entry 1 of 1                     |         |                                    |     |     |      |     |     |         |    |    |   |               |  |
| Size/dimensions                  |         |                                    |     |     |      |     |     |         |    |    |   |               |  |
| Size/dimensions                  |         |                                    |     |     |      |     |     |         |    |    |   |               |  |
| Fashion Attributes               |         |                                    |     |     |      |     |     |         |    |    |   |               |  |
| Char. value                      |         |                                    |     |     |      |     |     |         |    |    |   |               |  |
| Brand                            |         |                                    |     |     |      |     |     |         |    |    |   |               |  |
| Textiles Indicator               |         |                                    |     |     |      |     |     |         |    |    |   |               |  |
| Component 1                      |         |                                    |     |     |      | 0   | %   |         |    |    |   |               |  |
| Component 2                      |         |                                    |     |     |      | 0   | %   |         |    |    |   |               |  |