

Reference Data Management

for SAP Master Data Governance

Configuration



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1 Introduction

Reference Data Management (RDM) for SAP MDG provides the governance of reference data using pre-delivered reference data objects, user interfaces, workflows, and the replication of the data to a local staging area in receiving SAP systems. If you encounter any problems with this guide do not hesitate to get in contact with us. Please use support@itego.de (subject: "Configuration Guide RDM: <topic>").

2 Prerequisites

RDM is built as an Add-On to SAP Master Data Governance (MDG) which means that it needs to be installed based on SAP MDG. See the RDM Installation Guide for more details.

SAP MDG for Custom Objects (MDG-CO) needs to be activated and certain configuration steps need to be performed. See section 3.1 "Activate Business Functions".

3 Configuration for Reference Data Governance

3.1 Activate Business Functions

Before you activate business functions, ensure that you have the administration authorization for MDG. The required authorization objects are delivered with the authorization role SAP_MDG_ADMIN. In transaction PFCG, we recommend creating a copy of this role and to assign the relevant authorizations. For authorization object USMD_DM Data Model you need to assign the value for field "USMD_MODEL": "I1" and the values for "ACTVT" (e.g. 01: Create or generate and 02: Change).

In transaction SFW5 "Activate Business Functions" activate the following business functions for MDG-CO:

- MDG_FOUNDATION
- MDG_FOUNDATION_2
- MDG_FOUNDATION_3
- MDG_FOUNDATION_4
- MDG_FOUNDATION_5
- MDG_FOUNDATION_6

And activate the following business function for RDM if you want to use the RDM Product Hierarchy:

- /ITR/FOUNDATION_01

Also activate the Web Dynpro Applications for MDG-CO (see Configuration Guide for SAP MDG Custom Objects 8.0 -> "Services to be activated for MDG Web Dynpro Applications"). This document can be found here <http://help.sap.com/mdg> (MDG based on SAP ERP -> Application Help -> Version 8.0 -> Configuration of SAP MDG -> Config. of SAP MDG Central Governance -> Configuration of MDG for Custom Objects -> "Services to be activated for MDG Web Dynpro Applications").

Note: These business functions only need to be checked or activated on the SAP MDG system. No action necessary on the SAP Business systems which are usually the receivers of the data maintained on the SAP MDG system.

3.2 Activate Data Model I1

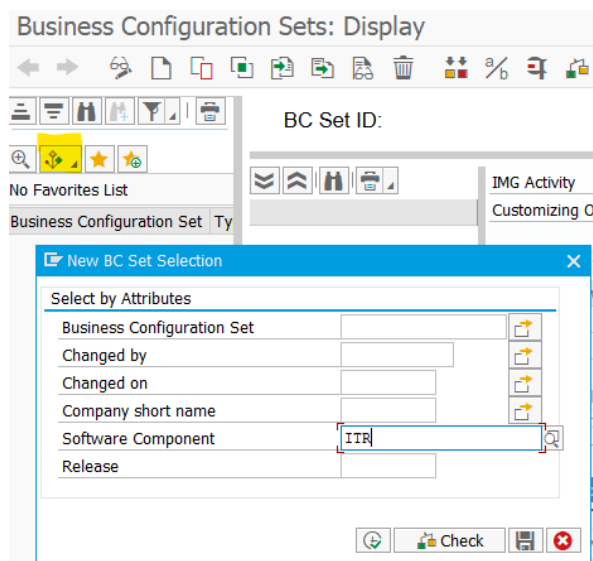
Check whether the data model I1 has been activated in transaction MDGIMG: General Settings -> Data Modeling -> Edit Data Model. If it has not been activated, select Data Model "I1" and click on  "Activate".

3.3 Activate Business Configuration Sets

The following Business Configuration Sets (BC Sets) might have to be imported on the SAP MDG system. Use transaction SCPR20 "Activate Business Sets" to activate them shown in the sequence below.

Please be aware that, as with any BC Set, you should check for conflicts before activating them. If there are conflicts, please investigate if you would like to activate anyways, partially, or not, as entries in your SAP MDG implementation might be affected. In doubt, please create a backup including the affected configuration tables in a transport, which can be used to restore your settings later if necessary. Please consider clarifying any remaining question by contacting support@itego.de (subject: "BC Set Usage")

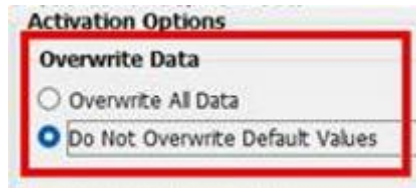
You can use transaction SCPR3 "Display and maintain BC Sets" to investigate the content of the BC Sets. Please use "Select by Attributes":



And search for Software Components ITR, ITO and ITG (on the MDG System) or ITO and ITG (on an SAP Business System).

Note: Starting with RDM 2407 the latest available BC Set includes the complete content from earlier versions. This means that for the installation of newer versions than RDM 2403 only the latest available BC Set (highest number <n>) needs to be activated. Please also be aware that new BC Sets (for the Fiori Launchpad) have been delivered which need to be activated as well. Please make sure that BC Sets are completely activated, in doubt repeat the activation step and if no complete activation is possible, contact support@itego.de (subject: "BC Set Activation").

Important Note for Upgrades: For the upgrade and the activation of new features, please make sure that "Do Not Overwrite Default Values" (see below) is used. If in doubt, please check with support@itego.de for instructions.



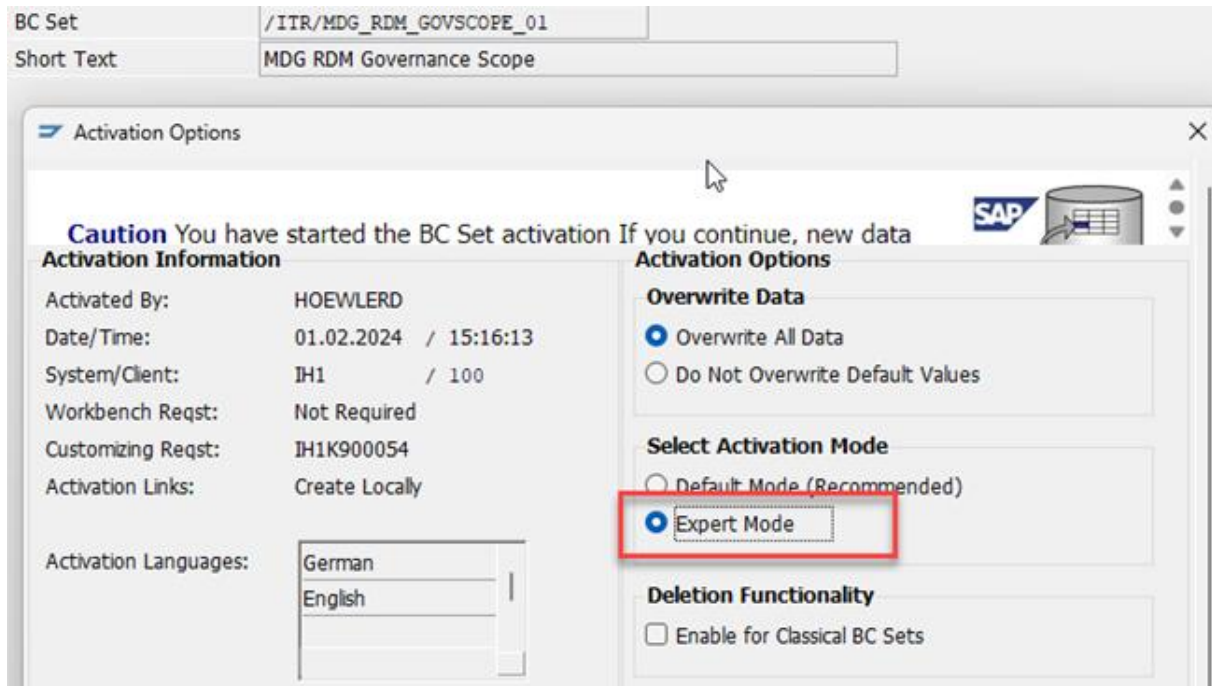
3.3.1 SAP MDG: BC Sets

3.3.1.1 Software Component ITR

The following BC Sets need to be activated on the MDG system:

- /ITR/MDG_RDM_BASIC_FRMWRK_<n> MDG RDM Framework Basic Settings
- /ITR/MDG_RDM_BUSACT_<n> MDG RDM Business Activities
- /ITR/MDG_RDM_DRF_BUS_ALT_<n> MDG RDM Replication Business Alternative
- /ITR/MDG_RDM_GOVSCOPE_<n> MDG RDM Governance Scope
- /ITR/RDM_SEARCH_HELP_<n> MDG RDM Search Help Selection
- /ITR/FLP_SEM_OBJ_<n> Fiori Launchpad Semantic Objects
- /ITR/FLP_SPACES_PAGES_<n> Fiori Launchpad Spaces and Pages

Note: /ITR/MDG_RDM_GOVSCOPE_<n> needs to be activated in "Expert Mode" which might need additional authorizations.



Besides the BC Sets listed above, the following BC Sets deliver Change Request types and Workflow configurations (**check the note below before activating**):

- /ITR/MDG_RDM_CREQUEST_<n> MDG RDM Change Request Types
- /ITR/MDG_RDM_WORKFLOW_<n> MDG RDM Workflow

Important Note: It is necessary to activate /ITR/MDG_RDM_WORKFLOW_01 as well if you want to use the delivered change request types. Please handle with care, as this BC Set delivers Step Types, Actions and Change Request Status that might already have been used in your system. These are:

- Step Types: A, E, H, P
- Actions: I1
- CR Status: 51, 53, 54, 55, 98, 99

Please make sure that you at least create a backup of the current settings and align them with the setting from the BC Sets after activation. In doubt **do not** activate this BC Set. If you do not activate it, you either must use your own change request types or you need to adjust the delivered change request types.

For Data Transfer please activate these BC Sets:

- /ITR/MDG_RDM_DT_<n> MDG RDM Data Transfer Settings

To get some predefined File Upload Variants please also consider activating the following BC Sets (please be aware that not all possible use cases are covered):

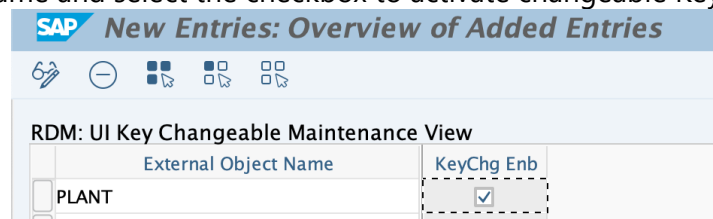
- /ITR/MDG_RDM_UPLOAD_VAR_<n> Upload Variants for RDM Objects

3.4 Note: In earlier versions of RDM the BC Set /ITR/MDG_RDM_BRF_DRF_<n> has been used to deliver templates for the configuration of the Data Replication. Do not activate these but review chapter 3.10 Configure Changeable Keys

This functionality ensures that an object identifier can be adjusted after initial creation if required. The keys can only be changed if a Two-Step Change Request type is used. For more information refer to the Functional Documentation in section 2.1.7.

Open the view /ITR/UI_KEYCHG_V.

Enter the object name and select the checkbox to activate changeable Keys.



RDM: UI Key Changeable Maintenance View	
External Object Name	KeyChg Enb
PLANT	☒

Set Up Data Replication for additional information.

3.4.1 SAP Business Systems: BC Sets

Note: It is quite common that MDG Systems have more than one client. One client (e.g. 100) could be used for the MDG system itself and another client or clients (e.g. 400 and 401) could be used to serve as "(Test) Business Systems". In this case also activate the BC Sets mentioned for Software Component ITO on the MDG system clients that you actually use as "(Test) Business System".

3.4.1.1 Software Component ITO

The following BC Set must be imported to all SAP business systems:

- /ITR/RDM_STAGING_<n> MDG RDM Local Staging Area

The following BC Sets should be imported to the SAP business system, which is used for the extraction of reference data (used for the initial load of the RDM system)

- /ITR/RDM_MDMGX_<n> MDG RDM Data Export

The following BC Sets must be imported to all SAP business systems which will be integrated to SAP Solution Manager ChaRM (not required for XLD):

- /ITR/MDG_RDM_SOL_MAN_<n> MDG RDM Solution Manager Integration

3.5 Configure User Roles and Authorizations

3.5.1 Reference Data Governance – MDG

The following roles are delivered for Reference Data Governance on the MDG system:

- /ITR/ITEGO_MDG_RDM_MENU_<n> NWBC Menu
- /ITR/ITEGO_MDG_RDM_DISP_<n> Display Role
- /ITR/ITEGO_MDG_RDM_REQ_<n> Requester
- /ITR/ITEGO_MDG_RDM_SPEC_<n> Data Specialist
- /ITR/ITEGO_MDG_RDM_STEW_<n> Data Steward

These Requester, Data Specialist and Data Steward Roles are reused in the BRF Workflow definitions for the Change Requests described in section 3.10 “Configure Rule Based Workflow”. It is recommended to copy the roles to your own namespace and replace the roles in the Workflow definitions.

3.5.2 Reference Data Governance – SAP Business System

The following roles are delivered for Reference Data Governance on the SAP business systems:

- /ITR/ITEGO_LSA_MENU Local Staging Area Menu
- /ITR/MDG_LSA_ADMIN Local Staging Area Administration
- /ITR/MDG_STAGING_<n> Local Staging Area
- /ITR/MDG_LSA_SNAPSHOT_MNG_<n> Snapshot Management

Make sure to adjust the authorization objects of your roles to define which roles can access and work with which reference data object types. The delivered roles should be excluded from the authorization profiles for other roles.

After the adjustment of the roles, assign your users to the roles and make sure that data model “I1” is assigned to the user profile parameter R_FMDM_MODEL “SAP Master Data Governance”.

The following role is delivered for the Master Data Framework on the MDG system and enables the user to maintain Business Rule configurations:

- /ITU/MDF_RF_MNT_<n> MDF Rule Framework Maintenance

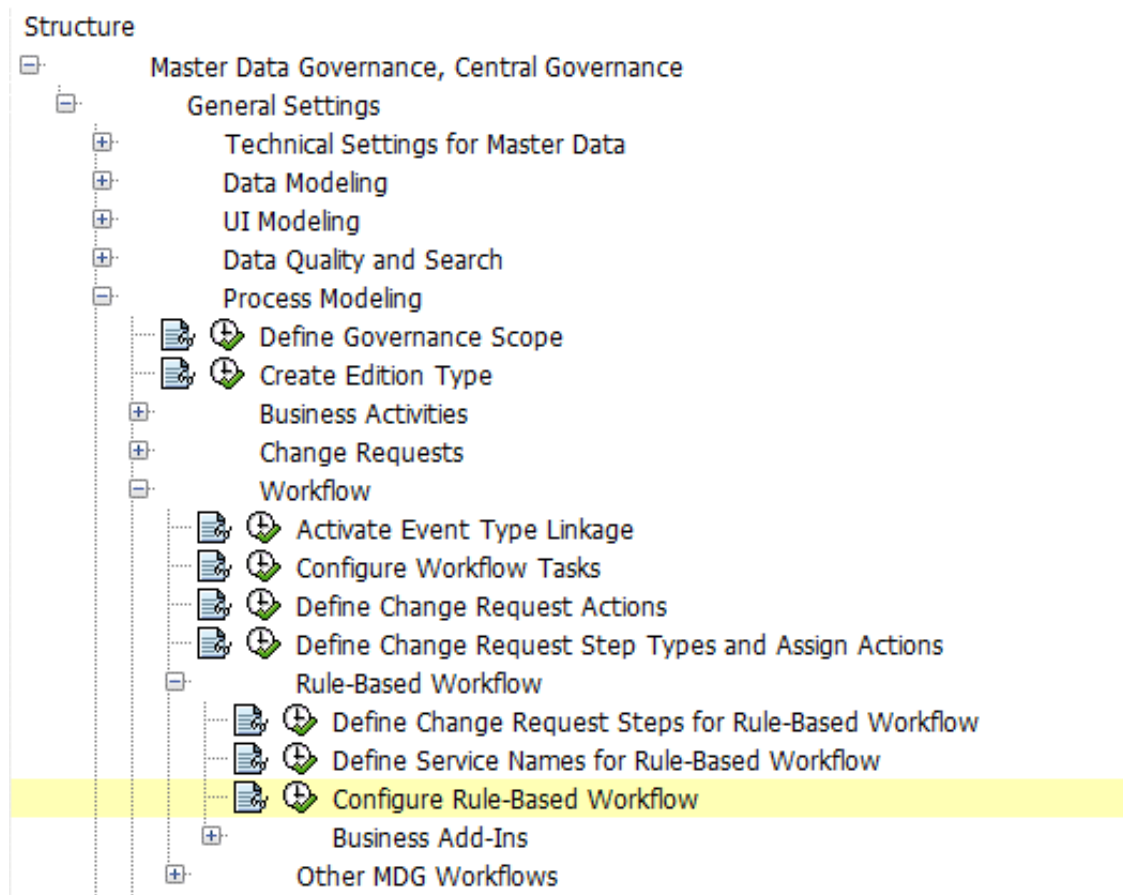
3.6 Copy Rule Based Workflows from Client 000

Rule based workflows delivered by RDM are delivered in client 000. To transfer these workflows to your operational client, you need to execute the following steps. Two alternatives are provided, the “automated copy” (which is recommended) or the “manual

copy". Please make sure that you make yourself familiar with the topic using the introduction provided below.

3.6.1 Introduction

Using transaction MDGIMG -> Process Modelling -> Workflow -> "Configure Rule-Based Workflow" provides access to the BRF+ (Business Rule Framework+) decision tables, that provide flexible processing of RDM change requests.



The BRF+ customizing used for this is delivered by SAP or SAP Partners like Itego to client 000 (using "C-tables"). This is how client specific data for BRF+ is delivered without overwriting data on target systems. For more information you can also check: [BRFplus User Guide](#).

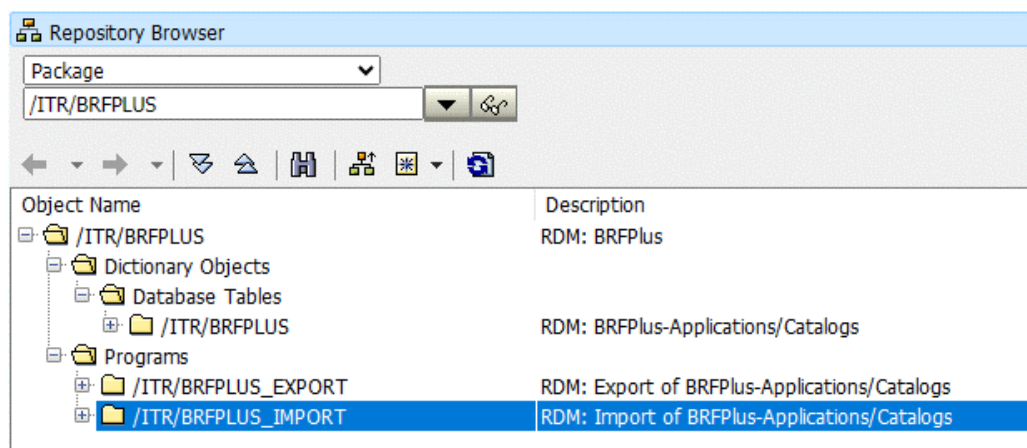
The customizing must be transferred from client 000 to the operational client where the change requests are processed. SAP standard provides a copy functionality (see also: [How to copy BRF+ rules in your target client](#)) and Itego implemented a convenient way to transfer

the customizing using the SAP XML Export/Import functionality of BRF+ (see also: [Export and Import of BRFplus XML Data](#)). This is called "Automated Copy" and described below.

3.6.2 Automated Copy

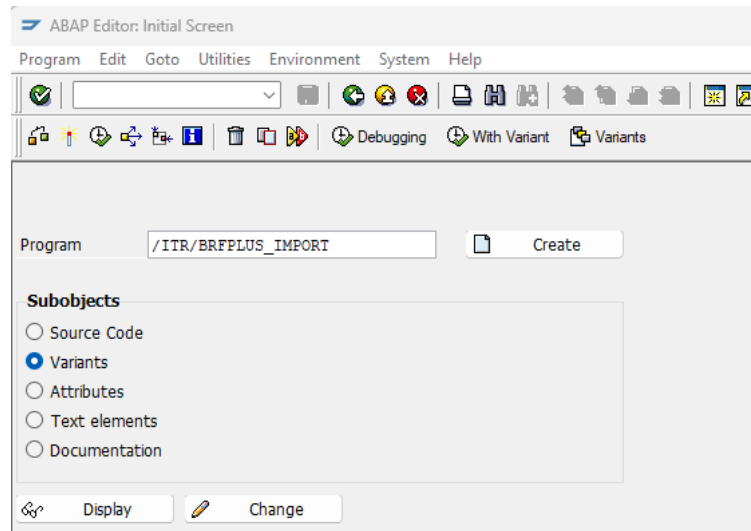
Itego RDM package /ITR/BRFPLUS includes two programs (reports)

- /ITR/BRFPLUS_EXPORT
- /ITR/BRFPLUS_IMPORT

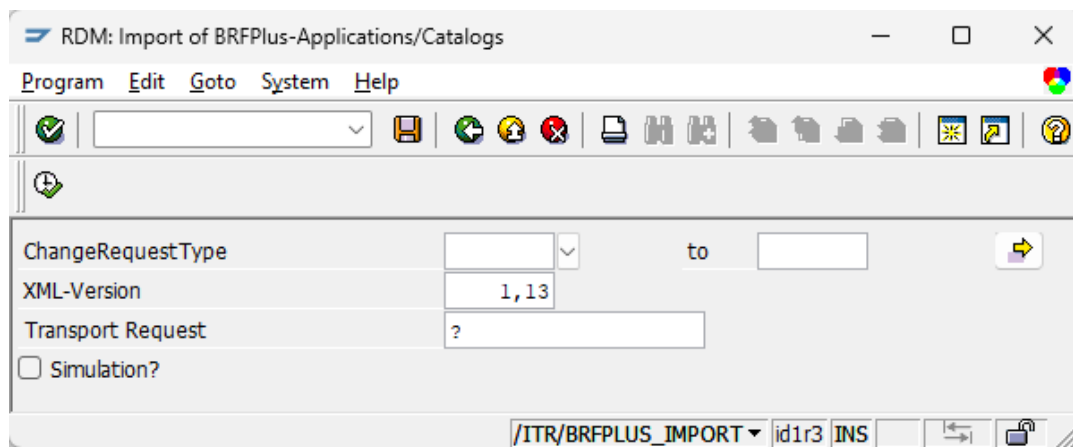


The XML export is already done by Itego and BRF+ data is delivered via table /ITR/BRFPLUS.

Before the XML Import (report /ITR/BRFPLUS_IMPORT) can be started a workbench request has to be created with transaction SE09 or SE10. After creating the request run transaction SA38 and start report /ITR/BRFPLUS_IMPORT:



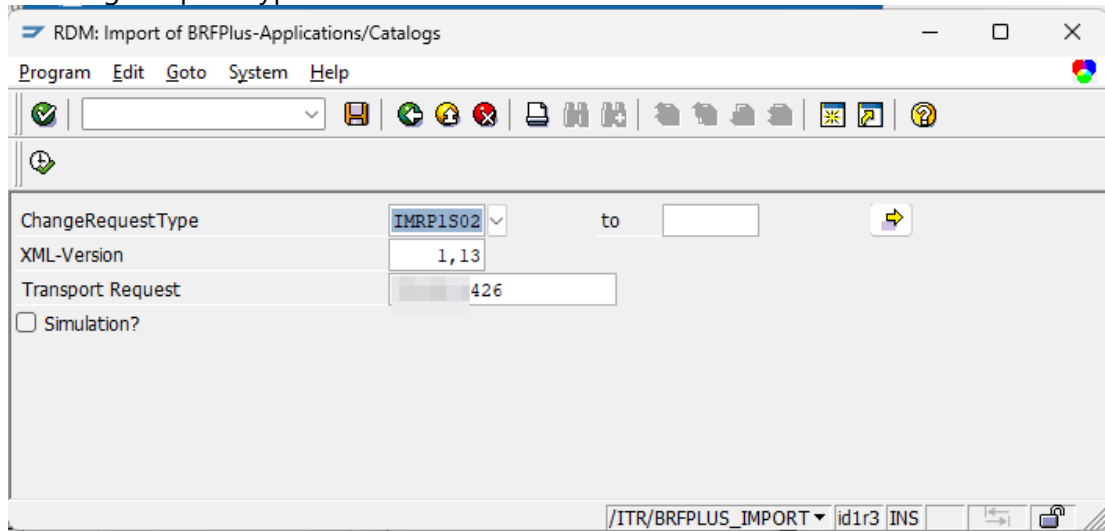
The report offers the following selection criteria:



- **Change Request Type**
Here you can select a range, use a generic entry like IC* or select explicit change request types to be written to BRF+.
- **XML-Version**
Usually it is fine to take the default value.
 - Itego delivers version 1,11; 1,12 and 1,13.
 - A higher version e.g. 1,14 works with 1,13 as well
- **Transport Request.**
During the program run, the imported BRF+ data records are written to the transport request (TR) you just created before. The TR is mandatory, as the SAP XML interface requires it. For RDM a TR is not mandatory, but you can use this TR to import the BRF+ data to other systems if necessary.

- Simulation
Checking this check box means to execute a test run including logging.

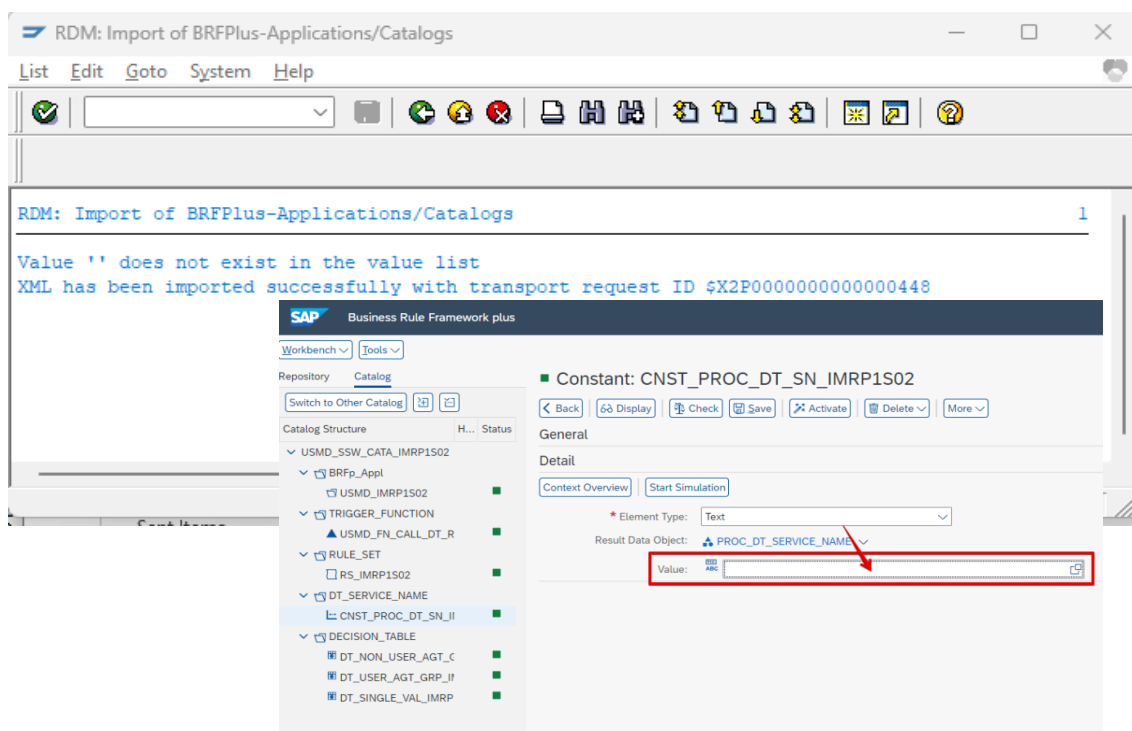
Example: Change request type IMRP1S02



Please ignore the warning:

Value '&1' does not exist in the value list (FDT_EXPRESSIONS-016)

In context of change request decision tables a not needed text field has no value, that's it – please see below:



Your created customizing request has one entry for TDAT FDT0000

Request/Task

1427

Customizing Task

Properties

Objects

Documentation



1 / 1

Short Description	Program ID	Object Type	Object Name	Fun...	Lo
Customizing: Table Contents	R3TR	TDAT	FDT0000		

and 224 entries for table keys in different tables:

Request/Task

1427

Customizing Task

Properties

Objects

Documentation

Key for object R3TR TDAT FDT0000 (FDT/BRFplus: Central Transport Object for C-Tables)

Language: --

IMG Activity: -



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Table Name	Table Keys
FDT_RLST_0001	1003497F65B23B11ED89EF316251425139F000000*
FDT_RLST_1000	1003497F65B23B11ED89EF316251425139F000000*
FDT_RLST_1100	1003497F65B23B11ED89EF316251425139F000000*
FDT_RLST_1200	1003497F65B23B11ED89EF316251425139F000000*

This means a large amount of data will be written to different database tables with a long processing time especially when you copy many (or all) change request types. The XML processing also creates a lot of resource consumption and therefore processing in background is recommended.

3.6.3 Manual Copy

1. **Create Transport:** Log in to client 000 and create a customizing transport.
2. **Identify Application IDs:** In the Data Browser (transaction SE16), enter the table name "FDT_ADMN_0000". In the table-selection screen, search for the name(s) "DT_SINGLE_VAL_I*" and press execute. Then copy all APPLICATION_IDs and close the transaction. Please set the maximum of hits to 1,000.
Hint: you can use System->List->Save->Save and save the table as a "Text with Tabs" and import this file into a spreadsheet format (like e.g. Excel). Then copy all APPLICATION_IDs.

3. **Transfer Applications to Transport:** Execute transaction SE38 and execute the report "FDT_TRANS". In the Workbench/Customizing field enter the transport, you created in step 1. For the Object ID field, press on multiple selection and paste the copied APPLICATION_IDs from step 3 into the "Single value" table (Hint: you can also save your list of APPLICATION_IDs into a text file and import it by clicking "Import from Text File" in the "multiple selection" dialog box). Then select the "Transport Whole Application(s)" checkbox and execute the transaction. Close the program once it's done.
4. **Release Transport:** Execute transaction SE10 and release the transport, you created in step 1.
5. **Copy Applications to MDG client:** Log on to your MDG client and copy the transport (using transaction SCC1, including the tasks of the request) you just released in step 4 (Source Client: 000). Then check the same table as in step 2 for the copied data.

3.7 Configure Multiple Object Change Request

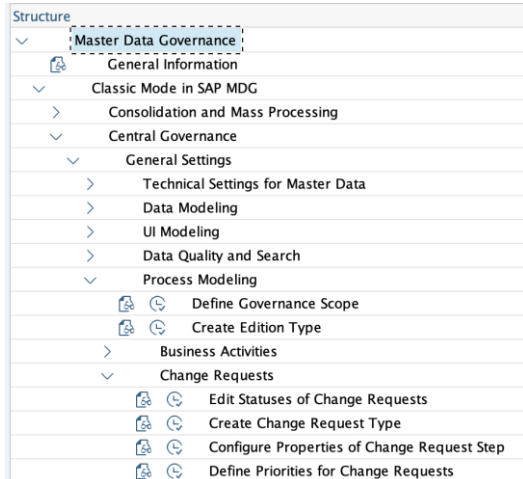
Implementing a multiple object change request allows to manage and process changes for several related master data objects simultaneously within a single workflow transaction. This functionality is recommended for scenarios requiring the coordinated maintenance of interdependent entities (e.g., Company and its Company Codes).

3.7.1 Workflow Settings

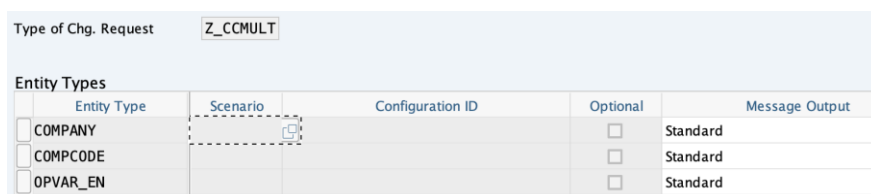
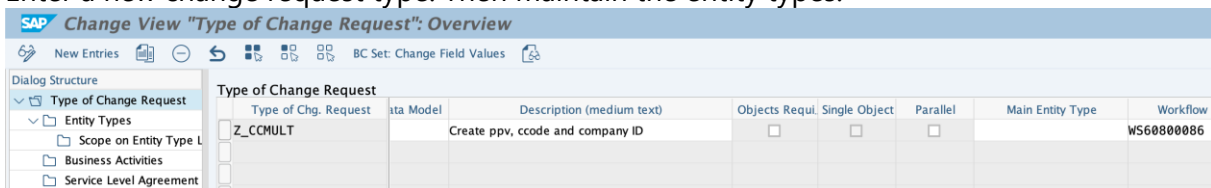
To create a multiple object, change request workflow, a new change request type must be created. It is recommended to copy an existing, similar change request type template and modify the settings to ensure consistency and to minimize the configuration effort.

For detailed explanations and more information visit [SAP Help Portal – Rule based Workflows](#). The following short guide shows relevant changes with the example Company Code, Company ID, and Posting Period Variant.

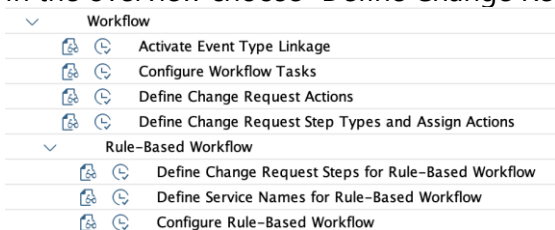
Open Tx MGDIMG and choose "Create Change Request Type".



Enter a new change request type. Then maintain the entity types.



In the overview choose "Define Change Request Steps for Rule-Based Workflow".



Enter the steps with description for the Change Request Type.

SAP Change View "Workflow Step Numbers": Overview

New Entries BC Set: Change Field Values

Type of Chg. Request	CR Step	Keys	Validation	Description (medium text)
☐ Z_CCMULT	0	☐	☐	Requester
☐ Z_CCMULT	5	☐	☐	Revision
☐ Z_CCMULT	10	☒	☒	Processor
☐ Z_CCMULT	20	☐	☒	Approver
☐ Z_CCMULT	96	☐	☐	Rollback
☐ Z_CCMULT	97	☐	☒	System call
☐ Z_CCMULT	98	☐	☒	Activation
☐ Z_CCMULT	99	☐	☐	Complete

In the overview choose "Configure Rule-Based Workflow".

SAP Process Definition of Rule-Based Workflow

Type of Change Request:* Z_CCMULT Create ppv, ccode and company ID

From an already existing object the decision tables should have been downloaded.

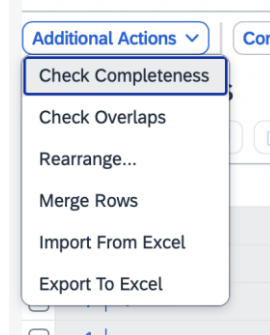
- ▼ Decision Tables
 - Non-User Agent Decision ...
 - User Agent Decision Table
 - Single Value Decision Table

To upload the tables, select "Edit".

■ **Decision Table: DT_NON_USER_AGT_GRP_Z_CCMULT**

Back
 Edit
 Check
 Save
 Activate
 Delete
 More

Import the excel for every table save, and activate,



After activation of the workflow can be used via the Fiori tile

Multiple Object Change Request

If you are using NWBC the Web Dynpro Application can also be added to a user role or the NWBC launchpad by using these settings:

Web Dynpro Applicat.:	USMD_CREQUEST_CREATE
Description:	Create multiple object type Change Request
Configuration	USMD_CREQUEST_CREATE

3.7.2 Governance Settings

To make sure that the object types can be assigned to each other in the change request processing check the MDG governance scope and make sure that "yes" is configured. Use transaction MDGIMG:

Structure	
☐	Master Data Governance
☐	General Information
☐	Classic Mode in SAP MDG
☐	Consolidation and Mass Processing
☐	Central Governance
☐	General Settings
☐	Technical Settings for Master Data
☐	Data Modeling
☐	UI Modeling
☐	Data Quality and Search
☐	Process Modeling
☐	Define Governance Scope
☐	Create Edition Type

Dialog Structure	Data Model: I1
- Data Models - Entity Types - Attributes	Entity Type: COMPCODE

Example here: maintain attributes "Company" and "Posting Period Variant" from "Company Code".

☐ RCOMP	Company	Yes
--------------------------------	---------	-----

☐ OPVAR	Posting Period Variant	Yes
--------------------------------	------------------------	-----

3.7.3 UI Settings

Configuration of User Interface using transaction MDGIMG:

>	UI Modeling
>	Data Quality and Search
▼	Process Modeling
	Define Governance Scope
	Create Edition Type
▼	Business Activities
	Define Logical Actions
	Create Business Activity
	Link Log. Actions with UI Application and Bus. Act.: Standard Definition
	Link Log. Actions with UI Application and Bus. Activity: Custom Definition
	Link Logical Actions with Business Activity: Standard Definition
	Link Logical Actions with Business Activity: Custom Definition
>	Change Requests

Example: usage of enhanced "Company Code" UI with assignments for "Company" and "Posting Period Variant":

☐ I_COMPANY	*	*	*	USMD_OVP_GEN	/ITR/I1_COMPANY_OVP_GEN
☒ I_COMPCODE	*	*	*	USMD_OVP_GEN	/ITR/I1_COMPCODE_OVP_GEN_02
☐ I_CURRENCY	*	*	*	USMD_OVP_GEN	/ITR/I1_CURRENCY_OVP_GEN

Configuration of search helps using transaction: /ITR/RDMIMG

▼	Master Data Governance for Reference Data
▼	General Settings
	Configure Search UI
	Configure UI Rules Adapter Class
	Configure UI Field Default Values
	Configure UI Field Properties
	Configure Search Help
>	Configure Product Hierarchy
>	Configure Data Replication

Example here: assign "Company" and "Posting Period Variant" from "Company Code" and assign "Company Code" from "Company":

☒ I1	COMPANY	/ITR/_S_I1_PP_COMPANY	CCODCOMP	Company Codes Address / Company Code	MDG-Staging
☐ I1	COMPCODE	/ITR/_S_I1_PP_COMPCODE	CCODECURR	Company Code / Currency	Customizing
☐ I1	COMPCODE	/ITR/_S_I1_PP_COMPCODE	CCODKTOPL	Company Code / Chart of Accts	Customizing
☐ I1	COMPCODE	/ITR/_S_I1_PP_COMPCODE	CCODLAND1	Company Code / Country/Reg.	Customizing
☐ I1	COMPCODE	/ITR/_S_I1_PP_COMPCODE	CCODSPRAS	Company Code / Language	Customizing
☒ I1	COMPCODE	/ITR/_S_I1_PP_COMPCODE	OPVAR	Company Codes / Posting Period Variants	MDG-Staging
☒ I1	COMPCODE	/ITR/_S_I1_PP_COMPCODE	RCOMP	Company Codes / Global Company Data (for KONS Ledger)	MDG-Staging

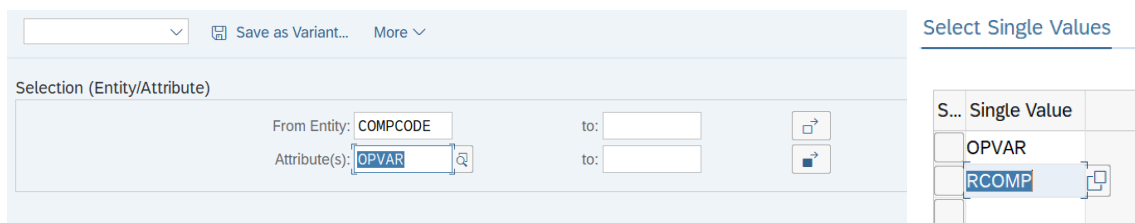
3.7.4 Validation Settings

In some use cases the data model-based validations for the so called “existence check” need to be deactivated. For this purpose, two reports are delivered which need to be executed after each data model generation.

- /ITU/CHG_NO_EXIST_CHECK (for data model attributes)
- /ITU/CHG_NO_EXIST_CHECK_REL (for data model relations)

The example below is again handling the scenario of maintaining Company, Company Code and Posting Period Variant in a multiple object type change request.

Run report /ITU/CHG_NO_EXIST_CHECK (for data model attributes) with transaction SA38:

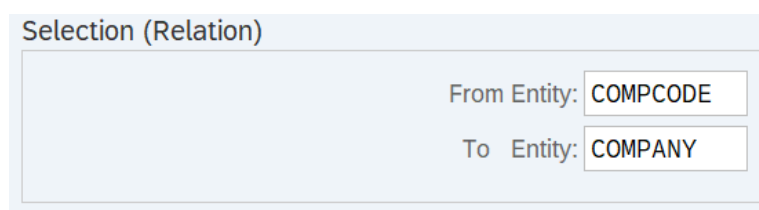


Result:

Entity	Attribute	from	to
COMPCODE	OPVAR	' '	'X'
COMPCODE	RCOMP	' '	'X'

This means: Posting Period Variant (attribute OPVAR) and Company (attribute RCOMP) can now be assigned from Company Code (entity COMPCODE) even though they have not been activated.

Run report /ITU/CHG_NO_EXIST_CHECK_REL (for data model relations) with transaction SA38:

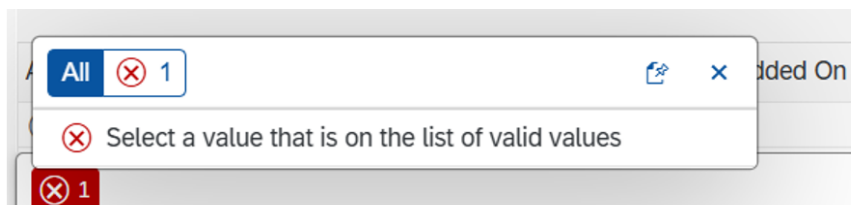


Result:

R_ENTITY	RELATION	TO_ENTITY	OLD_FLAG	NEW_FLAG
COMPCODE	CCODCOMP	COMPANY	' '	'X'

This means: Company Code (entity COMPCODE) can now be assigned from Company (entity COMPANY) can now be assigned from Company Code even though it has not been activated. This is achieved by deactivating the existence check on relation CCODCOMP.

The last two steps need to be executed if the system throws warnings like or like this after selecting already.



3.7.5 Data Replication and Local Staging Area

To be able to select the multiple objects which are maintained in this change request type for activation in the Local Staging Area in the receiving business system it needs to be checked that the change request information is transferred to this system. Check transaction /ITR/RDMIMG in the MDG system:

▼	Master Data Governance for Reference Data
>	General Settings
>	Configure Product Hierarchy
▼	Configure Data Replication
	Configure Business Alternative
	Activate WebService(s) for DRF-Outbound

Example: business system "IH1 client 400":

	Business System	Logical system	Entity Type	A
☐	IH1400	IH1400	RDM_CR_TF	☒

3.8 Adjust Governance Scope

Adjusting the Governance Scope on SAP MDG leads to a reduced set of attributes which are maintained for a specific object type. As the set of attributes might also differ from a local point of view also the local scope on SAP Receivers can be adjusted.

3.8.1.1 Define Governance Scope

You can determine a set of governed attributes for each reference data object type. Fields which will be defined as "out-of-scope" are shown as read-only in change requests unless they are removed from the user interface.

Prerequisite: You are aware of the consequences of changing the governance scope. See the help document in transaction MDGIMG "Customizing for Master Data Governance": General Settings -> Process Modeling -> Define Governance Scope before you execute this activity.

Most fields defined in this customizing activity will not be replicated but will be replaced by a "no data" sign which will allow to keep the local field values in the receiving system. Certain limitations apply, so please make sure to test the data replication after the definition of the Governance Scope.

3.8.1.2 Configure Search Helps

This feature is mainly used to avoid additional configuration or development efforts when the Search Helps in an object type which is in the RDM scope refer to an object type which is not in the RDM scope.

Note: currently some object types are not fully covered. This includes all object types which in the Search Help refer to the object types language, country, and currency (which could be loaded to RDM) but also Unit of Measure, Tax Code, MRP Controller and Holiday Calendar (which might need additional configuration for some Search Helps). Please consider clarifying remaining questions by contacting support@itego.de (subject: "Configure Search Helps")

Depending on the chosen Governance scope you should align the search help for each object type in scope. This can be done by calling transaction /ITR/RDMIMG -> General Settings -> Configure Search Helps. Here the following pattern should be applied:

- Configure Search Helps for each object type in scope.
- For each object type configure all search helps
- For each search help configure:
 - "Customizing" if the object type to be maintained in this attribute **is not** part of the Governance Scope

- "MDG-Staging" if the object type to be maintained in this attribute **is** part of the Governance Scope

RDM will show

- Data from the ERP persistence (related ERP customizing tables) for each search help flagged with "Customizing"
- Data from the MDG persistence (generated MDG tables) for each search help flagged with "MDG-Staging"

Note: if you do not configure this RDM will show data as defined in the data model. Means: sometimes data will be shown based on generated MDG tables, sometimes data will be shown based on related ERP customizing tables. As a data replication to the MDG client should be configured (see Chapter 3.11), data in the ERP customizing tables in general should be the same as the data in the generated MDG tables. Which means that the entry "Customizing" in most cases should be the right setting because:

- for the Business Governance Alternative (Direct Update) the data is written to the ERP persistence immediately after activating an approve Change Request
- for the IT Governance Alternative (via Local Staging Area) the data is written to the ERP persistency immediately after the data is activated in the Local Staging Area.

However, if you configure change request types which can be used to maintain more than one object type, the expected results could be different as the search help in such a change request type usually would show inactive data as well. In these cases, the setting "MDG-Staging" might make sense.

3.8.1.2.1 Remote Validations

Remote validations allow to verify data against external systems in real-time to ensure it meets specific target system requirements before activation.

The setup for Remote Validations begins by defining the origin of values (e.g., Plant) through a specific customizing path, where you select the entity type, set the field definition level, and specify the source for the value, such as an ERP system. For each individual field, you can determine whether the value source is local or remote, ensuring that the system does not merely display information but actively performs a validation. A UI error message is triggered if a value does not exist in the remote system or if an inconsistency is detected between the local data and the remote destination, thereby maintaining high data integrity across the landscape.

3.8.1.2.1.1 Set Remote Validations

As an example, to explain the usage of remote validations we use attribute *Region* of the entity type *Plant Address*.

In the local system (left picture) we have entries 1-24 for Country Argentina.
In the remote system (right picture) we do not have Region 24 and there is an additional Region 25.

SAP Display View "Regions": Overview

Display BC Set

Ctry/Reg.	Region	Description
AR		La Rioja
AR	09	Salta
AR	10	San Juan
AR	11	San Luis
AR	12	Santa Fe
AR	13	Santiago del Estero
AR	14	Tucuman
AR	16	Chaco
AR	17	Chubut
AR	18	Formosa
AR	19	Misiones
AR	20	Neuquen
AR	21	La Pampa
AR	22	Rio Negro
AR	23	Santa Cruz
AR	24	Tierra de Fuego

SAP Display View "Regions": Overview

Country	Region	Description
AR		Salta
AR	10	San Juan
AR	11	San Luis
AR	12	Santa Fe
AR	13	Santiago del Estero
AR	14	Tucuman
AR	16	Chaco
AR	17	Chubut
AR	18	Formosa
AR	19	Misiones
AR	20	Neuquen
AR	21	La Pampa
AR	22	Rio Negro
AR	23	Santa Cruz
AR	25	Remote only

To use Remote Validations, start transaction `/ITU/PF4_CHOICE_RE`.

SAP Change View "RDM: PF4-MaintView": Overview

Dialog Structure

- RDM: PF4-MaintView
 - RDM:PF4-Remote

Data Model	Entity Type	Attribute Structure Name	Field Name	Description	PF4-Varia.
I1	BKLA_VAL	/ITR/_ST_I1_PP_BKLA...	LANGU	Valuation class / Language	T Customizing
I1	BLART	/ITR/_ST_I1_PP_PLART	LANGU	Document Type / Language	T Customizing
I1	BLART	/ITR/_S_I1_PP_PLART	STBLA	Document Type / Reverse Document Type	T Customizing

You can set the origin of the values in column 'PF4-Varia.' from the customizing table or from the MDG-Staging tables. When using remote validations "Customizing" must be set!

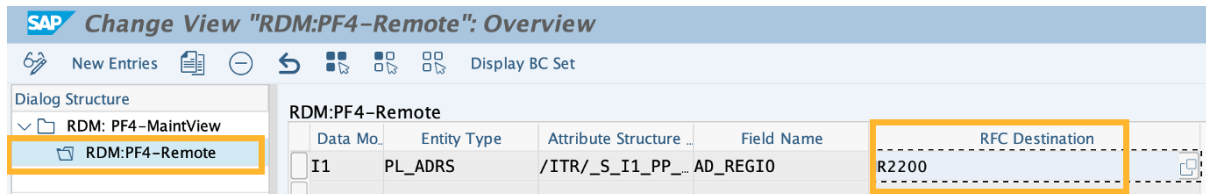
SAP Change View "RDM: PF4-MaintView": Overview

Dialog Structure

- RDM: PF4-MaintView
 - RDM:PF4-Remote

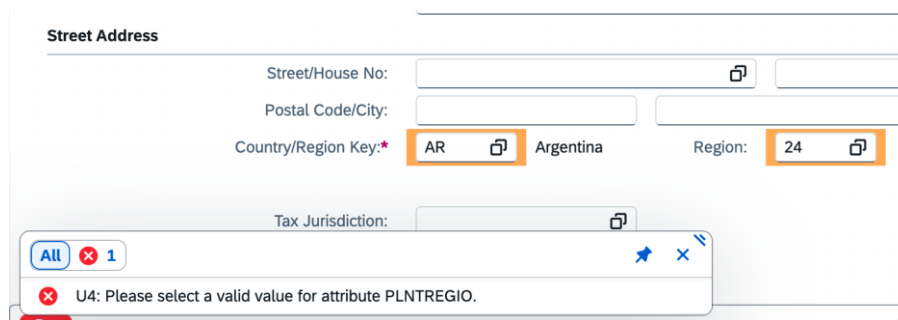
Data Model	Entity Type	Attribute Structure Name	Field Name	Description	PF4-Varia.
I1	PLSEQ	/ITR/_S_I1_PP_PLSEQ	PLANT_PL	Scope of planning Sequence / Plant	T Customizing
I1	PL_ADRS	/ITR/_S_I1_PP_PL_ADRS	AD_LAND1	Plant Address / Country/Reg.	T Customizing
I1	PL_ADRS	/ITR/_S_I1_PP_PL_ADRS	AD_REGIO	Plant Address / Region	T Customizing
T1	DI_ADRS	/ITR/_S_I1_PP_PL_ADRS	DI_ADRS	Plant Address / Plant	T Customizing

Selecting the field *Region* (`AD_REGIO`) of entity type *Plant-Address* (`PL_ADRS`) and then "`RDM:PF4-Remote`" allows to enter an RFC Destination (e.g. the ERP System).



Values are not only displayed but also undergo a formal validation process. A UI error message is triggered if the value does not exist in the remote system or if an inconsistency is detected between the local and the remote system.

E.g. we have *Region 24* in the local system that does not exist in the remote system, which leads to an error message.



3.8.1.2.1.2 Deactivate Existence Check

The Existence Check typically validates data against local values by default. However, this causes issues when values exist only in a remote system. To resolve this, the local existence check must be deactivated.

For this use report `/ITU/CHG_NO_EXIST_CHECK` and/or `/ITU/CHG_NO_EXIST_CHECK_REL` via transaction `SE38`.

Entries are governed by tables `USMD0022` and `USMD0023`. The choice of the report depends on how the attribute is linked to the entity:

1. Report `/ITU/CHG_NO_EXIST_CHECK_REL`:

Use when attributes are derived via Entity Relationships.

This function dynamically modifies table `USMD0023` entries that are incorporated into validation checks through relationships.

An example would be, if you need to validate a *Company* against a *Company Code* via a local or remote ERP system:

SAP Change View "Relationships": Overview

Dialog Structure

- Inactive Data Models
 - Entity Types
 - Attributes
 - Business Object Type
 - Entity Types for Hierar
 - Hierarchy Attributes
 - Hierarchy Attributes
 - Relationships

Data Model I1

Relationships

From-EntityType	Relationship	To-Entity Type	Relation. Type	Cardinality
COMPCODE	CCODCOMP	COMPANY	Referencing	0 : N
COMPCODE	CC_ADDR	CC_ADRS	P Leading	1 1 : N
COMPCODE	PA_CC CODE	PERSA	Referencing	0 0 : N
COMPCODE	SORGCCODE	SALESORG	Referencing	0 0 : N

2. Report /ITU/CHG_NO_EXIST_CHECK

Use when attributes are defined directly within the entity type.

This function should be triggered when attributes are native to the entity type and are not assigned via relationships.

For the Plant-Address example we would deactivate the existence check for the attribute's *region* and *country* in *Plant* and *Plant-Address* via report /ITU/CHG_NO_EXIST_CHECK_REL.

SAP RDM: (De)Activate NoExistenceCheck-Flag for Relations

Selection (Relation)

From Entity: LAND1 to To Entity: PL_ADRS

Option

Testmode: ☐

Multiple Selection for From Entity

Select Single Values Select Ranges Exclude Single Values Exclude Ranges

Single Value

LAND1

REGIO

SAP RDM: (De)Activate NoExistenceCheck-Flag for Relations

Selection (Relation)

From Entity: LAND1 to To Entity: PL_ADRS

Option

Testmode: ☐

To disable the existence check, select **activate**.

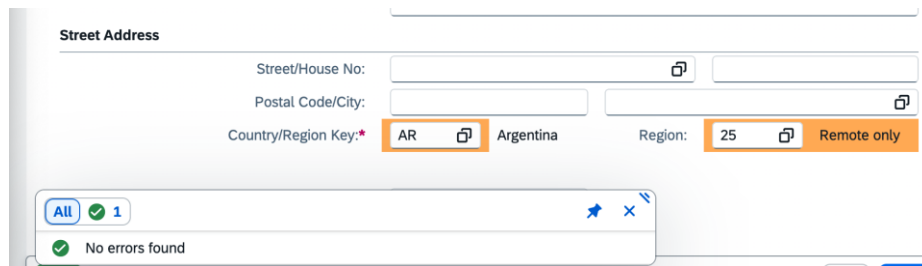
No Existence Check -> Activate/Deactivate

Change of value(s)?

Activate Deactivate Cancel

Now this is currently supported only for a specific list of objects.

For Region 25 that exists in the remote system only, no error message is thrown due to the deactivation of the existence check.



3.8.1.2.1.3 Enable Custom Attributes for Remote Validations

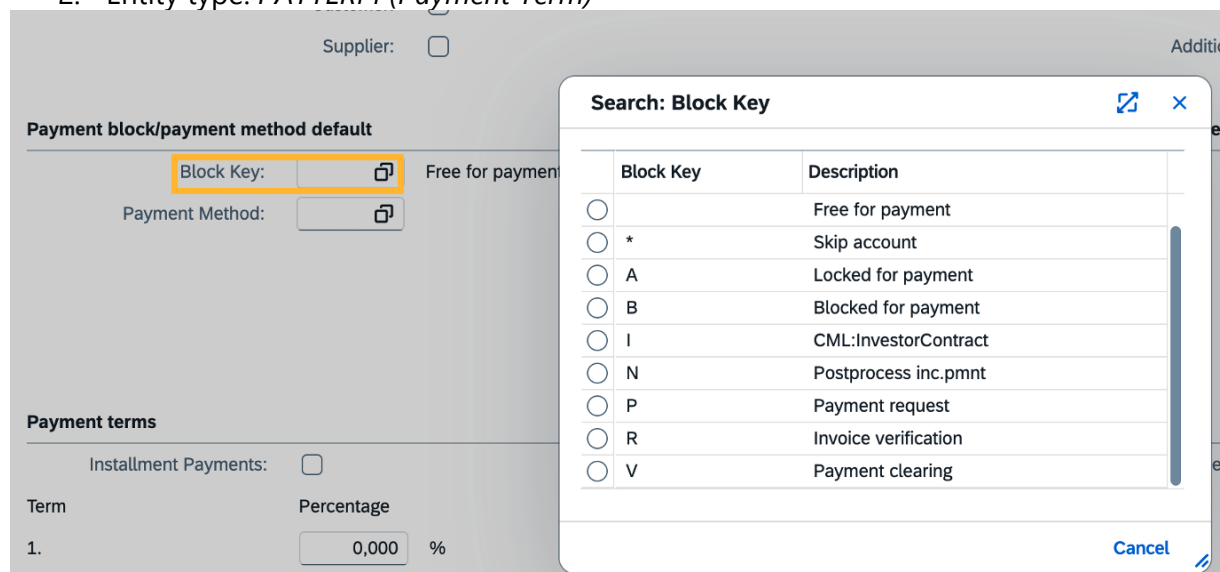
To enable an attribute for remote validations a search help must be defined. This search help will use the function module *RFC_READ_TABLE* to fetch data from the remote system. This search help will be integrated into the UI configuration by adapting the corresponding feeder class.

Below you will find the steps in detail.

Example: Payment Block Key:

In this scenario, we want to fetch the *Payment Block Key* (data stored in *T008*) from a remote system for the entity type *Payment Term*.

1. Field: *ZSCHFDL* (*Payment Block Key*)
2. Entity type: *PAYTERM* (*Payment Term*)



Block Key	Description
	Free for payment
*	Skip account
A	Locked for payment
B	Blocked for payment
I	CML:InvestorContract
N	Postprocess inc.pmnt
P	Payment request
R	Invoice verification
V	Payment clearing

Step 1: Create a new search help

You need to create a specific search help that will handle the remote call with RFC_READ_TABLE.

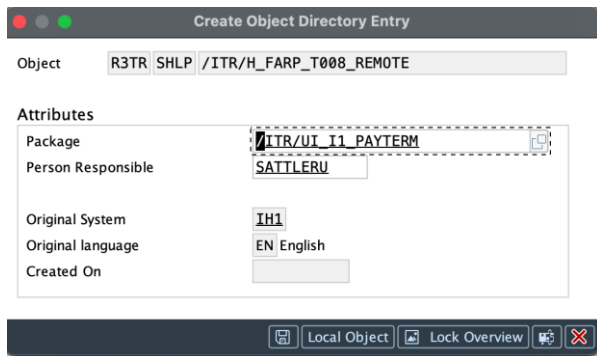
Open transaction *SE11* and enter the search help name */ITR/H_FARP_T008_REMOTE* and click create.

Select "Elementary Search Help".

- Enter a short description.
- Use Dialog type "Display values immediately" ("D").
- Check "Autosuggest in Input Fields".
- Enter */ITR/SH_EXIT_ZAHLS_REMOTE* as search help exit.
- Enter the search help parameters such as in the screenshot below.

Search help parameter	IMP	EXP	LPos	SPos	SDis	Data element	Mo.	Default value
ZAHLS	☒	☒	1	1	☐	DZAHLS		
TEXTL	☐	☒	2	2	☐	TEXTL_008		

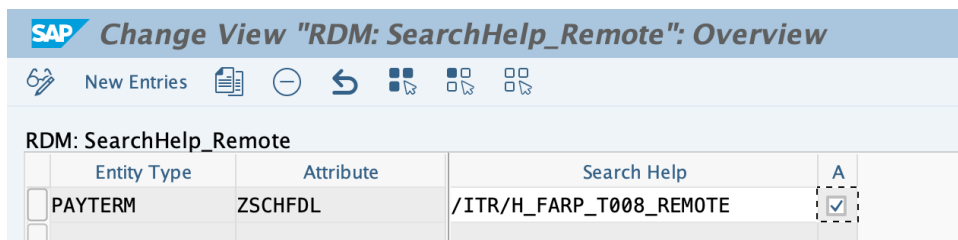
Save and add to a package.



Step 2: Register the search help

Once the search help `/ITR/H_FARP_T008_REMOTE` is created, register it using transaction `/ITU/PF4_SH_REMOTE`.

Map the field `ZSCHFDL` to the new search help and set the Activation flag.



Entity Type	Attribute	Search Help	A
PAYTERM	ZSCHFDL	/ITR/H_FARP_T008_REMOTE	☒

Step 3: Dynamic search help assignment in the feeder class

To ensure the UI recognizes the remote search help, you must modify the Feeder Class.

Class: `/ITR/CL_GUIBB_PAYTERM_FORM`

Method: `IF_FPM_GUIBB_FORM~GET_DEFINITION`

```

Class Builder: Klasse /ITR/CL_GUIBB_PAYTERM_FORM anzeigen
Methode Bearbeiten Springen Hilfsmittel Umfeld System Hilfe

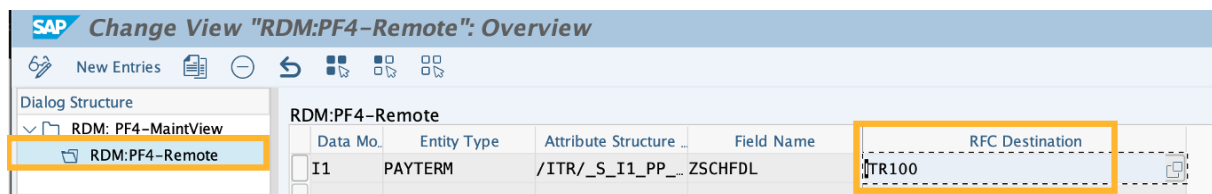
Methode IF_FFH_GUIBB_FORM-GET_DEFINITION aktiv
13
14 READ TABLE et_field_description ASSIGNING FIELD-SYMBOL(<ls_field_description_zlschdl>) WITH KEY name = 'ZLSCHDL'.
15 IF <ls_field_description_zlschdl> IS ASSIGNED.
16   <ls_field_description_zlschdl>-ovs_name = me->mv_my_classname.
17 ENDIF.
18
19 *---> SCY
20 DATA: mo_app_context TYPE REF TO if_usmd_app_context,
21       lv_entity       TYPE usmd_entity,
22       t_sh_rem        TYPE TABLE OF /itu/sh_remote,
23       l_sh_rem        TYPE /itu/sh_remote,
24       i_destination   TYPE rfodest.
25 mo_app_context = cl_usmd_app_context=>get_context( ).
26 IF mo_app_context IS BOUND.
27   SELECT SINGLE usmd_entity_main FROM usmdl10c INTO lv_entity WHERE usmd_creq_type = mo_app_context->mv_crequest_type.
28   IF sy-subrc EQ 0.
29     SELECT * FROM /itu/sh_remote INTO TABLE t_sh_rem
30     WHERE usmd_entity = lv_entity.
31     LOOP AT t_sh_rem INTO l_sh_rem.
32       READ TABLE et_field_description ASSIGNING FIELD-SYMBOL(<ls_field_l>) WITH KEY name = l_sh_rem-usmd_attribute.
33       IF sy-subrc EQ 0 AND l_sh_rem-usmd_search_hlp IS NOT INITIAL.
34         <ls_field_l>-ddic_shlp_name = l_sh_rem-usmd_search_hlp.
35       ENDIF.
36     ENDLOOP.
37   ENDIF.
38 *---> SCY
39 ENDMETHOD.

```

Step 4: Set Remote System

You must prepare the mapping table so that the system knows which RFC destination to call for a specific field. This ensures the value list matches the remote system's data.

Open transaction `/ITU/PF4_CHOICE_RE`. Search for the Payment Term field `ZSCHFDL`, select PF4-Variant *Customizing* and click on *RDM:PF4-Remote* to enter the remote system.



SAP Change View "RDM:PF4-Remote": Overview				
Dialog Structure				
RDM: PF4-MainView				
RDM:PF4-Remote				
RDM:PF4-Remote				
Data Mo.	Entity Type	Attribute Structure	Field Name	RFC Destination
I1	PAYTERM	/ITR/_S_I1_PP_	ZSCHFDL	TR100

Step 5: Disable standard MDG validation logic

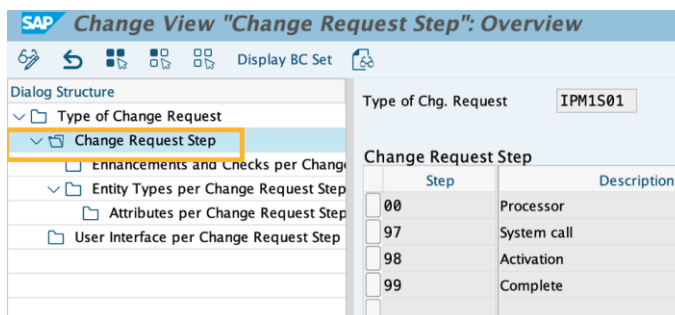
Because validation is now handled remotely via the new search help and dynamic assignment, you may need to bypass or suppress standard MDG check logic for these specific fields to prevent conflicts between local validation rules and remote data results.

To disable the standard field checks per change request type and step follow the steps below:

In *MDGIMG* go to Classic Mode in *SAP MDG* → *Central Governance* → *General Settings* → *Process Modeling* → *Business Activities* → *Change Requests* → *Configure Properties of Change Request Step*

▼	Change Requests
	 Edit Statuses of Change Requests
	 Create Change Request Type
	 Configure Properties of Change Request Step
	 Define Priorities for Change Requests

Select the corresponding change request type, in this example *IPM1S01*, then click on *Change Request Step*.



The screenshot shows the SAP Change View 'Change Request Step': Overview. The 'Type of Chg. Request' is set to **IPM1S01**. The 'Change Request Step' table lists the following steps:

Step	Description
00	Processor
97	System call
98	Activation
99	Complete

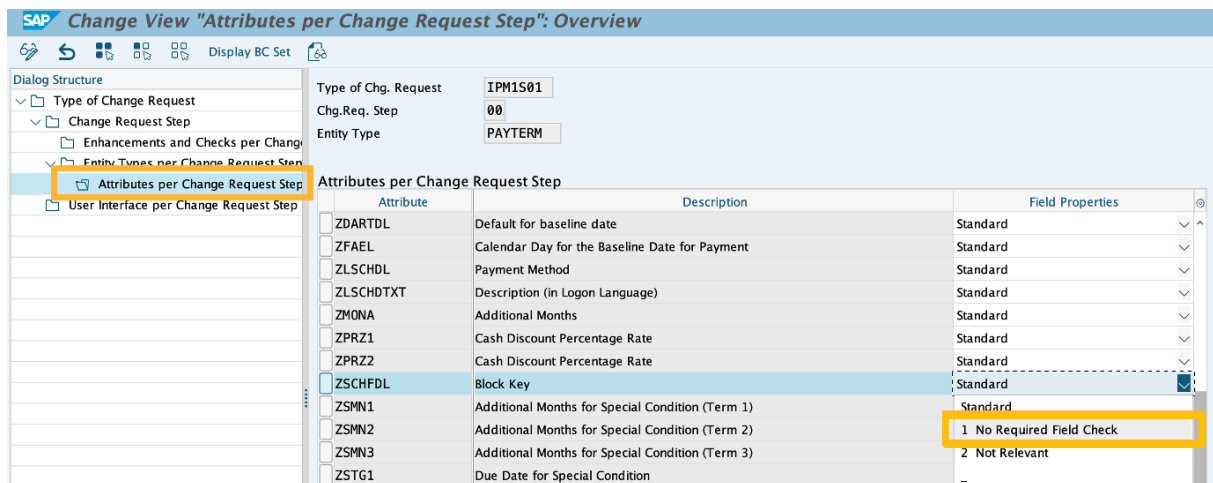
Select step *00*, then go to *Entity Types per Change Request Step*.



The screenshot shows the SAP Change View 'Entity Types per Change Request Step': Overview. The 'Type of Chg. Request' is **IPM1S01** and the 'Chg. Req. Step' is **00**. The 'Entity Types per Change Request Step' table lists the following entity types:

Entity Type	Description	Field Properties	CheckLogic
PAYTERM	Payment Term	Standard	▼ All Configured Types of Checks

Select entity type *PAYTERM* and go to *Attributes per Change Request Step*. Then for the attribute *ZSCHFDL Block Key* change the field property to *No Required Field Check*.



The screenshot shows the SAP Change View 'Attributes per Change Request Step': Overview. The 'Type of Chg. Request' is **IPM1S01**, the 'Chg. Req. Step' is **00**, and the 'Entity Type' is **PAYTERM**. The 'Attributes per Change Request Step' table lists the following attributes:

Attribute	Description	Field Properties
ZDARTDL	Default for baseline date	Standard
ZFAEL	Calendar Day for the Baseline Date for Payment	Standard
ZLSCHDL	Payment Method	Standard
ZLSCHDTXT	Description (in Logon Language)	Standard
ZMONA	Additional Months	Standard
ZPRZ1	Cash Discount Percentage Rate	Standard
ZPRZ2	Cash Discount Percentage Rate	Standard
ZSCHFDL	Block Key	Standard
ZSMN1	Additional Months for Special Condition (Term 1)	Standard
ZSMN2	Additional Months for Special Condition (Term 2)	Standard
ZSMN3	Additional Months for Special Condition (Term 3)	Standard
ZSTG1	Due Date for Special Condition	Standard

The 'Field Properties' for the **ZSCHFDL** attribute are shown as a dropdown menu with the following options:

- Standard
- 1 No Required Field Check**
- 2 Not Relevant

Now the user will see the *Block Key* values retrieved from the remote system:

Payment Term Details

Edit

Payment Term

Terms of Payment: KLO1

Day Limit: 0

Account Type

Customer: ☒

Supplier: ☒

Payment block/payment method default

Block Key: Free for paym...

Payment Met... :

Search: Block Key

Block Key

Description

☐

☐

Free for payment

☐

*

Skip account

☐

A

Locked for payment

☐

B

Blocked for payment

☐

C

remotely blocked

☐

I

CML:InvestorContract

☐

N

Postprocess inc.pmnt

☐

P

Payment request

☐

R

Invoice verification

☐

V

Payment clearing

3.8.1.2.1.4 List of supported Entity-Types and Attributes

The following table shows all supported entity-types and attributes for remote validations.

RDM-Object	Entity-Type	Attributes
Plant	PLANT	CITYC COUNC FABKL PLNTLAND1 PLNTSPRAS PL-VKORG
	PL_ADRS	AD_LAND1 AD_REGIO PLANT
Tax Code	KALSM_TAX	LAND1_TAX
Payment Term Details	DAYLIMIT	PAYMNTTRM
Company Code	COMPCODE	CCODECURR CCODKTOPL CCODLAND1 CCODESPRAS CC_PERIV OPVAR RCOMP
	CC_ADRS	CC_LAND

		CC_REGIO COMPCODE
Chart of Accounts	KTOPL	DSPRA
Document Type	BLART	STBLA
Unit of Measure	MSEHX	MSSIE

3.8.2 SAP Business System: Adjust Local Scope

Based on the attributes which can be maintained globally on the SAP MDG Sender you can define specific scope adjustments on each SAP Receiver system. For this use transaction /ITR/RDM_LSA_FIELDS which maintains view /ITR/LSA_TABS_FV. Every attribute which is not within this scope definition will not be overwritten when data is activated on the business system.

3.9 Adjust User Interfaces

User Interfaces should be adjusted based on the Governance Scope and the user requirements.

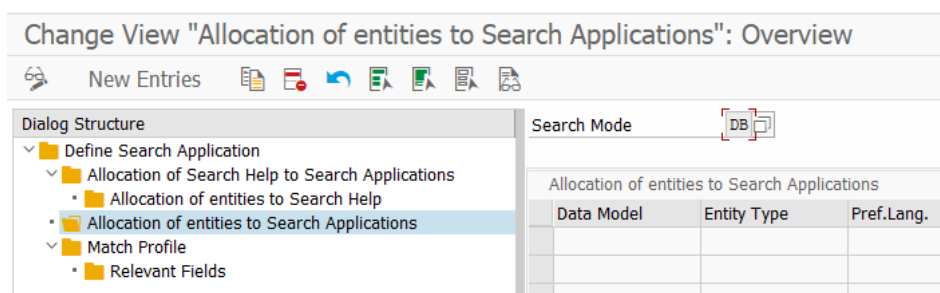
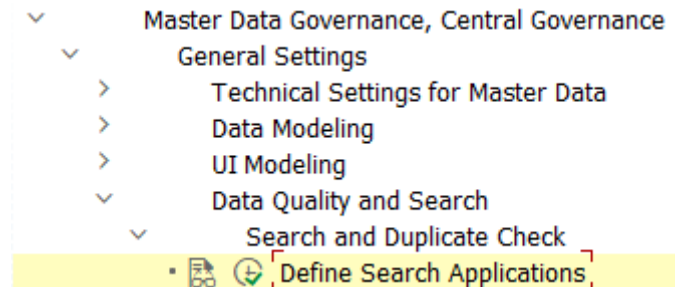
The Master Data Framework (MDF) provides capabilities for the definition of

- Field properties
- Search configurations
- Default Values
- Validations and
- Derivations

Please check the document "Technical Documentation of the MDF Configuration Management" to learn more about this.

On top of these functionalities provided, the SAP Floorplan Manager (FPM) can be leveraged for additional adjustments.

Note: To define Search Modes for individual entities SAP provides the configuration option below. Make sure that you are aware of side effects to other entities described below.



Make sure that this configuration only is used when you define an allocation for every entity type used in and SAP MDG application. Otherwise, an entry for an RDM object might impact the search for other entities. For example, the search mode for an SAP MDG-F based object like Cost Center, which should be HA (HANA) based, might be changed to DB (Database) by the SAP MDG framework.

3.10 Configure Rule Based Workflow

Prerequisite: You have configured the general settings for SAP Business Workflow in Customizing for SAP NetWeaver under Application Server -> Business Management -> SAP Business Workflow.

The configuration of the rule-based workflow is done in transaction MDGIMG: General Settings -> Process Modeling -> Workflow -> Rule-based Workflow -> Configure Rule-Based Workflow.

Consider the following BC Sets from section 3.3 "Activate Business Configuration Sets" as templates for your configuration (**check also the notes mentioned in this section**):

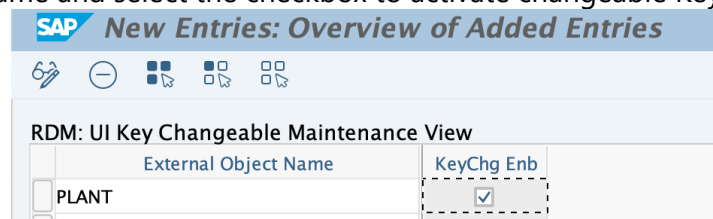
- /ITR/MDG_RDM_CREQUEST_<n> MDG RDM Change Request Types
- /ITR/MDG_RDM_WORKFLOW_<n> MDG RDM Workflow

3.11 Configure Changeable Keys

This functionality ensures that an object identifier can be adjusted after initial creation if required. The keys can only be changed if a Two-Step Change Request type is used. For more information refer to the Functional Documentation in section 2.1.7.

Open the view /ITR/UI_KEYCHG_V.

Enter the object name and select the checkbox to activate changeable Keys.



External Object Name	KeyChg Enb
PLANT	☒

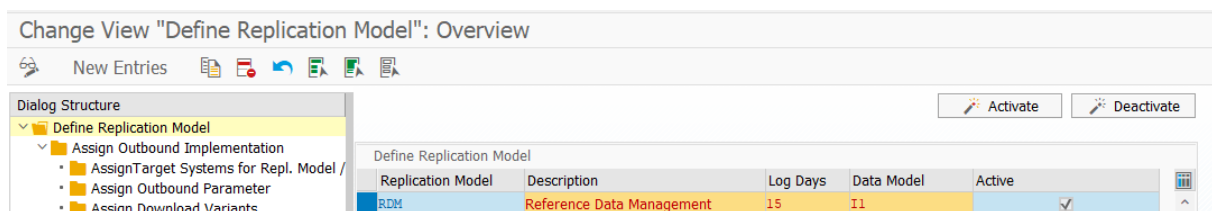
3.12 Set Up Data Replication

To configure the Data Replication for RDM the "Data Replication Framework" (DRF) needs to be configured as well as the technical settings for ALE or Webservices.

Note: Make sure that you also define the data replication to the MDG client which will make sure that related ERP customizing tables are synchronized. For the IT Governance Alternative this should be configured via the Local Staging Area in the MDG development system whereas for the Business Governance Alternative this should be configured by using the direct replication to the MDG production system (with optional connection to the test as well as the development system). See chapter 5.1.5 for a configuration example.

3.12.1 Data Replication Framework settings

Use transaction DRFIMG to maintain Business Systems and the Data Replication Model.



Replication Model	Description	Log Days	Data Model	Active
RDM	Reference Data Management	15	I1	☒

3.12.1.1 Configuration of Outbound Implementations

Configure Outbound Implementations for your model based on the scope of your RDM implementation and define a communication channel.

Change View "Assign Outbound Implementation": Overview

New Entries

Dialog Structure

- Define Replication Model
 - Assign Outbound Implementation
 - Assign Target Systems for Repl. Model /
 - Assign Outbound Parameter
 - Assign Download Variants
 - Assign Language

Replication Model RDM Reference Data Management

Assign Outbound Implementation

Outbound Implementation	Description	Sequence	Communication Channel
/ITR/EKGRP	RDM - Outbound Implementation for EKGRP (Purchasing Gro...		Replication via IDoc
/ITR/EKORG	RDM - Outbound Implementation for EKORG (Purchasing Org...		Replication via IDoc
/ITR/ERKRS	RDM - Outbound Implementation for ERKRS (OperConc.)		Replication via IDoc

For some RDM object types the assigned outbound implementations follow an object specific implementation. If you do not have project specific requirements which require the usage of these, please change the implementation classes for the following objects to the generic implementation:

Transaction: DRFIMG

- Data Replication
 - Overall Information
 - Define Custom Settings for Data Replication
 - Enhance Default Settings for Outbound Implementations
 - Define Parameters
 - Define Filter Objects
 - Define Business Objects and Object Identifiers
 - Define Service Operations Available for Replication
 - Define Outbound Implementations
 - Define Outbound Interface Models

Object Type	Outbound Implementation	Outbound Implementation Class
Currency	/ITR/CURRC	/ITR/CL_CURRENCY_OUT_IDOC_GEN
Purchasing Group	/ITR/EKGRP	/ITR/CL_EKGRP_OUT_IDOC_GEN
Purchasing Organization	/ITR/EKORG	/ITR/CL_EKORG_OUT_IDOC_GEN
Account Group Customer	/ITR/KTOKD	/ITR/CL_KTOKD_OUT_IDOC_GEN
Account Group Vendor	/ITR/KTOKK	/ITR/CL_KTOKK_OUT_IDOC_GEN
Account Group Gen. Led.	/ITR/KTOKS	/ITR/CL_KTOKS_OUT_IDOC_GEN
Country	/ITR/LAND1	/ITR/CL_LAND1_OUT_IDOC_GEN
Material Group	/ITR/MATKL	/ITR/CL_MATKL_OUT_IDOC_GEN
Unit of Measure	/ITR/MSSIE	/ITR/CL_MSSIE_OUT_IDOC_GEN
Payment Term Day Limit	/ITR/PAYMD	/ITR/CL_DAYLIMIT_OUT_IDOC_GEN
Payment Term	/ITR/PAYMN	/ITR/CL_PAYMNTTRM_OUT_IDOC_GEN
Plant	/ITR/PLANT	/ITR/CL_PLANT_OUT_IDOC_GEN
Product Hierarchy	/ITR/PRODH	/ITR/CL_PRODH_OUT_IDOC_GEN

Product Hierarchy	/ITR/PRODL	/ITR/CL_PRODHL_OUT_IDOC_GEN
Product Hierarchy	/ITR/PRODN	/ITR/CL_PRODHN_OUT_IDOC_GEN
Region	/ITR/REGIO	/ITR/CL_REGIO_OUT_IDOC_GEN
Sales Org	/ITR/SAORG	/ITR/CL_SALESORG_OUT_IDOC_GEN

Note: You do not have to change the outbound implementation classes for other objects. They follow a generic approach even if the classes do not have a "_GEN" suffix.

3.12.1.2 Replication of change request related information

Change Request related information will be replicated to target systems by configuring the parameter RDM_CR_TF using /ITR/RDMIMG -> Configure Data Replication -> Configure Business Alternative. This configuration is target system dependent and needs to be configured for each target system if required for all systems. Example for a target system called "ID1400":

RDM: Activate Direct Table Update			
Business System	Logical sy...	Entity Type	A
ID1400	ID1400	RDM_CR_TF	☒

3.12.1.3 Deletion of assignments

Deletion of assignments will be replicated to target systems by configuring the parameter RDM_DE_TF using /ITR/RDMIMG -> Configure Data Replication -> Configure Business Alternative. This configuration is target system dependent and needs to be configured for each target system if required for all systems. This for example allows to delete language dependent texts or an entry in the sequence of the object type "Planning Scope". Example:

RDM: Activate Direct Table Update			
Business System	Logical s...	Entity Type	A
ID1400	ID1400	RDM_DE_TF	☒

Note: Please be aware that these deletions are not supported for all object types in all cases. Please consider clarifying remaining questions by contacting support@itego.de (subject: "Deletion of assignments").

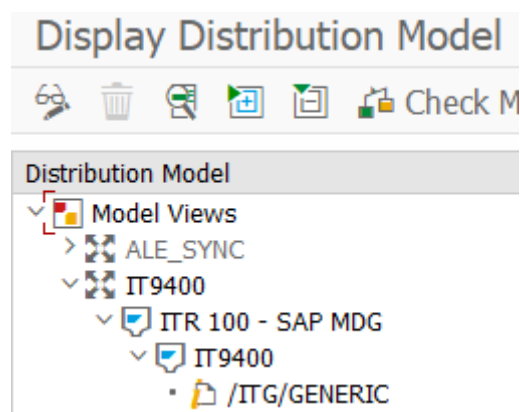
3.12.2 Data Replication using Application Link Enabling (ALE)

If the Data Replication for reference data objects shall be implemented using ALE, the communication needs to be setup between the RDM system and the receiving systems.

3.12.2.1 ALE Configuration for Generic Message Type

For most object types RDM uses the generic message type /ITG/GENERIC which needs to be configured using transactions BD64 and WE20. The figures below show the most important settings. For a more detailed description please have a look at the configuration example provided in chapter 5.1 Data Replication based on SAP ALE.

BD64 (example)



WE20 (example from receiving system)

Inbound parmtrs.						
Partner R...	Message Type	Message v...	MessageFu...	Test	P..	Process code
	/ITG/GENERIC			☐		/ITG/GENERIC_IN_BUNDLE

3.12.2.2 ALE Configuration for Object Specific Message Types

For some RDM object types SAP delivers standard message types which need to be configured. These are:

- Classification (Classes and Characteristics): CLSMAS and CHRMAS
- Exchange Rates: EXCHANGE_RATE

If these objects are part of your implementation scope, please add these message types as shown in the previous chapter.

Example from Transaction BD64 (Sender):

- ▼ RDM Replication
 - ▼ IH1 Client 100 - S/4 MDG
 - ▼ IR1 Client 200 - S/4 ERP
 - /ITG/GENERIC
 - > CLSMAS
 - > CHRMAS
 - > ExchangeRate.SaveReplica

RDM_REP
IH1100
IR1200
RDM: generic message type
Class system: Classes master
Class system: Characteristics master
Replication of Currency Rates

Transaction WE20 (Sender), after generation of partner profiles:

Outbound								
Partner R...	Message type	Message v...	Function	Test	Receiver ...	L...	Pa...	Basic type
	CHRMAS			☐	A000000001	100	100	CHRMAS05
	CLSMAS			☐	A000000001	100	100	CLSMAS04
	EXCHANGE_RATE			☐	A000000001	100	100	EXCHANGE_RATE01

Transaction WE20 (Receiver), after generation of partner profiles:

Inbound						
Partner R...	Message Type	Message v...	Function	Test	P..	Process code
	CHRMAS			☐	CHRM	
	CLSMAS			☐	CLSM	
	EXCHANGE_RATE			☐	BAPP	

For these please also make sure that they have been added in the Replication Model (transaction DRFIMG):

Display IMG

Existing BC Sets BC Sets

Structure

- ▼ Data Replication
 - Overall Information
 - ▼ Define Custom Settings for Data Replication
 - > Define Technical Settings
 - Define Replication Models
 - Define Business Object Settings

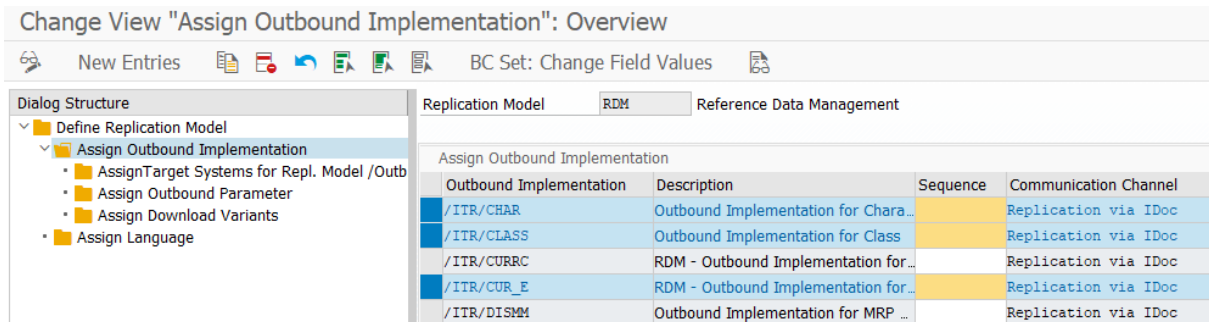
Change View "Define Replication Model": Overview

New Entries BC Set: Change Field Values Activate Deactivate

Dialog Structure

- ▼ Define Replication Model
 - Assign Outbound Implementation
 - Assign Target Systems for Repl. Model /Outb
 - Assign Outbound Parameter
 - Assign Download Variants

Define Replication Model				
Replication Model	Description	Log Days	Data Model	Active
RDM	Reference Data Management	15	I1	✓



3.12.3 Data Replication using WebServices

RDM implements SOAP as a network protocol, which uses XML to transfer the reference data. With this it enables an exchange of data between heterogeneous applications on different systems. The web services are described in WSDL files (Web Service Description Language) which are provided by the server. Using this information, the client application obtains information about the offered web services.

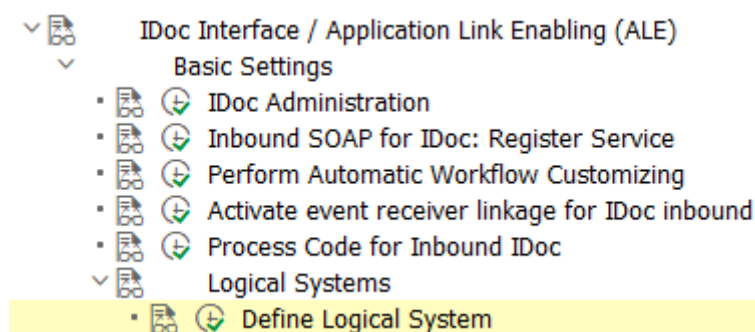
The web services offer two functionalities:

- Push (Send from RDM)
- Pull (Call from outside)

Examples:

- Push (generic): /ITR/RDM_WS_SEND_OBJECT
- Pull (generic): /ITR/RDM_WS_GET_OBJECT
- Pull (object-specific): /ITR/RDM_WS_GET_PLANT

Transaction SALE: Define Logical System



Change View "Logical Systems": Overview

New Entries

Log.System	Name
RDM_WEBSER	Webservice

Transaction DRFIMG: Define Technical Settings and Replication Models

- ▼ Data Replication
 - Overall Information
 - ▼ Define Custom Settings for Data Replication
 - ▼ Define Technical Settings
 - Define Technical Settings for Business Systems
 - BADI: Determination of Local System Name

Change View "Define Business Systems": Overview

New Entries

Business System	Logical System	RFC Destination	Logical File Path	Download to PS	Unicode	Unicode Code Page	Disabled for Replication
RDM_WEBSER	RDM_WEBSER			☐	☐	0	☐

- ▼ Data Replication
 - Overall Information
 - ▼ Define Custom Settings for Data Replication
 - Define Technical Settings
 - Define Replication Models

Define Replication Model

Replication Model	Description	Log Days	Data Model	Active
RDM	Reference Data Management	15	I1	☒

Assign Outbound Implementation

Outbound Implementation	Description	Sequence	Communication Channel	Filter Time
/ITR/MATKL	M - Outbound Implementation for MATKL		Replication via IDoc	Filter After Change A
/ITR/MMSTA	RDM - Outbound Implementation for MMST		Replication via IDoc	Filter After Change A
/ITR/MMSTA	Outbound Implementation for MMST		Replication via IDoc	Filter After Change A

Dialog Structure

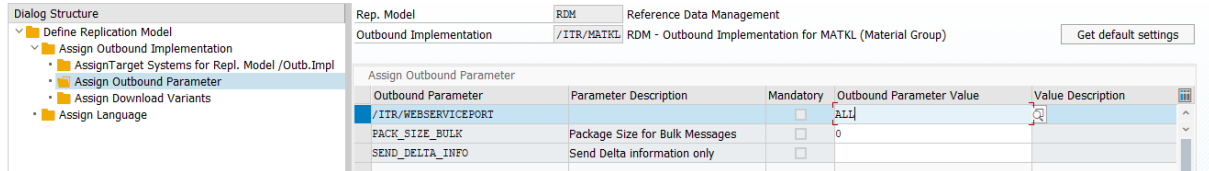
Define Replication Model

Assign Outbound Implementation

AssignTarget Systems for Repl. Model /Outb.Impl

Business System

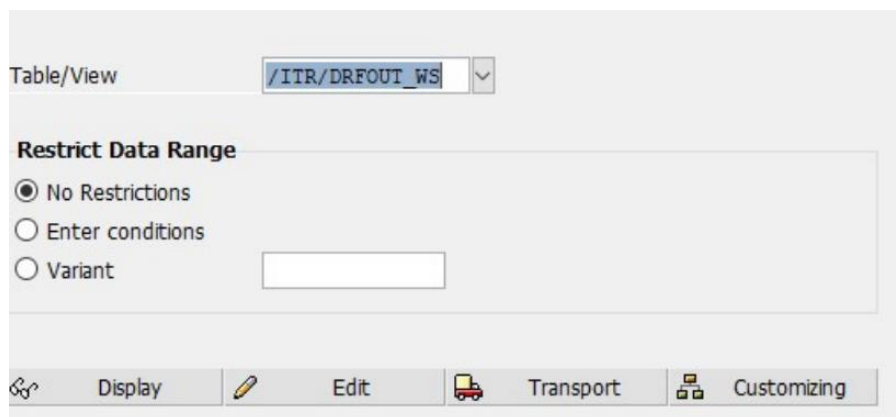
RDM_WEBSER



Outbound Parameter	Parameter Description	Mandatory	Outbound Parameter Value	Value Description
/ITR/WEBSERVICEPORT		☐	ALL	
PACK_SIZE_BULK	Package Size for Bulk Messages	☐	0	
SEND_DELTA_INFO	Send Delta information only	☐		

Using outbound parameter /ITR/WEBSERVICEPORT you can define which logical port will be used. If you define Value "ALL" all ports defined will be used.

Maintenance of ports via table /ITR/DRFOUT_WS



Business System	Logical system	Logical Port	
RDM_WEBSE	RDM_WEBSE	Z PORT TO IR1200	Active

For necessary settings with regards to the WebService Environment using transaction SOAMANAGER please have a look at chapter 5.2 Data Replication based on Webservices.

For more information, please contact support@itego.de (subject: "Configuration Guide RDM: Webservices")

3.12.4 Key Mapping

SAP MDG provides the following transactions to maintain and analyze Key Mapping:

- MDG_KM_MAINTAIN - Maintain Key Mapping
- MDG_ANALYSE_IDM - Search Key Mapping

Use these transactions to maintain or search the Key Mapping for reference data object types by using:

- Business Object Type: "RDM: <Object Type>". Example: "RDM: Company Codes"
- Object ID Type: "I_<Entity Type> Description". Example: "I_COMPCODE
CompanyCode"

Example for maintenance of Key Mapping:

Key Mapping RDM: Company Codes : 0001

Save

Object Selection

* Business Object Type: RDM: Company Codes

* Business System: ITR100

* Object ID Type/Object ID: CompanyCode / 0001

Show

Mapped Objects

Add Row
Change Row
Delete Row
Undo Changes

*No.	*System ID	*Business Object Type	Object ID Type	*Object ID
1	ITR100	RDM: Company Codes	CompanyCode	0001
2	ITR400	RDM: Company Codes	CompanyCode	4001

Example for Search Key Mapping:

Search Key Mapping

[Start Search](#)

Selection Criteria

Bus. Obj. Type: RDM: Company Codes

Object ID Type: I_COMPCODE

Business System:

ID Value:

Selected Objects

Object ID	ID Value	OIT	Description	Bus. Sy...	Mapping Group ID
3497F65823B11EDCB2E0607019971AA5	0001	I_COMPCODE	CompanyCode	ITR100	3497F65823B11EDCB2E0607019979AA5
3497F65823B11EDCB2E0607019975AA5	4001	I_COMPCODE	CompanyCode	ITR400	3497F65823B11EDCB2E0607019979AA5
3497F65823B11EDCB2E065A900D5DADA	TSC1	I_COMPCODE	CompanyCode	ITR100	3497F65823B11EDCB2E065A900D65A...
3497F65823B11EDCB2E065A900D61ADA	T401	I_COMPCODE	CompanyCode	ITR400	3497F65823B11EDCB2E065A900D65A...
3497F65823B11EDCBFD380240D00C7B3	GD01	I_COMPCODE	CompanyCode	ITR100	3497F65823B11EDCBFD380240D0167B3
3497F65823B11EDCBFD380240D0127B3	GD99	I_COMPCODE	CompanyCode	ITR400	3497F65823B11EDCBFD380240D0167B3

Mapping Groups of an Object

Object ID	ID Value	OIT	Description	Bus. Sy...	Bus. Obj. Type	Description
3497F65823B11EDCB2E0607019971AA5	0001	I_COMPCODE	CompanyCode	ITR100	I_COMPCODE	RDM: Company Codes
3497F65823B11EDCB2E0607019975AA5	4001	I_COMPCODE	CompanyCode	ITR400	I_COMPCODE	RDM: Company Codes

Export to Spreadsheet:

	B	E	G
	ID Value	Business System	Description of Business Object Type
1			
2	0001	ITR100	RDM: Company Codes
3	4001	ITR400	RDM: Company Codes

In the data replication the maintained values will be mapped based on the receiver system.
Example, based on the maintained mappings above (transaction BD87):

3.12.5 Value Mapping

- Type: Data Element
- Global Data Type (GDT): `"/ITR/<table>/<attribute>"`. Example: `"/ITR/T023/BKLAS"` (Valuation Class for Material Group).

- List ID: "/ITR/T023/BKLAS"
- List Agency ID: "/ITR/T023/BKLAS"
- List Version ID: 01

Change View "Maintain Value Mapping Fields": Overview									
     									
Maintain Value Mapping Fields									
Object Type	Global Data Type	Name	Navigation	GDT Default	Client Dep	Context Structure	Input Help	Mapping Class	
Data Element	1/1TR/7023/RK1AS			☐	☒		CL_MDG_CODE_LIST_PROVIDER		

Display View "Assign Code Lists": Overview

Dialog Structure

- Assign Code Lists
 - Define Value Mapping

Object Type

DTEL

Global Data Type

/ITR/T023/BKLAS

Assign Code Lists

Mapping ID	List Agency ID	List ID	List Version ID	Internal List ID	Outb. Def.	No Map.	Mapping Class
01	/ITR/T023/BKLAS	/ITR/T023/BKLAS	01		☐	☐	

Display View "Define Value Mapping": Overview

Dialog Structure

- Assign Code Lists
 - Define Value Mapping

Object Type

DTEL

Global Data Type

/ITR/T023/BKLAS

Mapping ID

01

External Codelist

External Codelist

Define Value Mapping

Map Comb.	Internal Code Value	Description	External Code Value	Inb. Def.	Outb. Def.
1	0710		9999	☐	☐
2	0720		9998	☐	☐

External codes (for system ITR400) for internal codes. Example: 9999 for 0710.

Display IMG

Existing BC Sets

BC Sets for Activity

Structure

- Value Mapping
 - Overall Information
 - Maintain Value Mapping
 - Assign Code Lists to Elements and Systems
 - Define Technical Settings for Business Systems

Change View "Assign Code Lists to Elements and Systems": Overview

New Entries

Assign Code Lists to Elements and Systems

Type	Global Data Type	Internal List ID	Business System	List ID	List Agency ID	List Version ID
Data Element	/ITR/T023/BKLAS	01	ITR400	/ITR/T023/BKLAS	/ITR/T023/BKLAS	01

Code list are now in this example assigned for Business System ITR400. Make sure that this entry is added after you added the mapping in step "Maintain Value Mapping". Otherwise, the system will not allow you to add this entry here.

In the data replication the maintained values will be mapped based on the receiver system. Example, based on the maintained mappings above (transaction BD87):

Please add the filter objects manually

Dialog Structure

- Define Filter Objects
 - Assign Filters**
 - Assign Entity Type

Filter Object: RDM - Filter for CUR_EXRA

Assign Filters					
Filter	Description	Filter Type	General Filter Parameter	Manual Filter Parameter	Filter Class
80	OIF-Filter for CUR_EXRA	Explicit Complex Filter	/ITR/_S_I1_DRF_CUR_EXRA		CL_USMD_DRF_FILTER

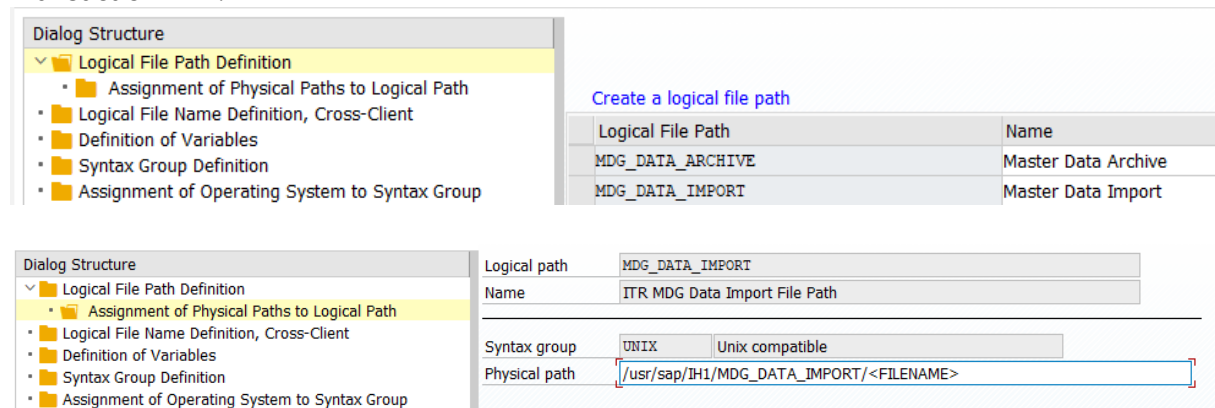
3.13 Set Up Data Transfer

Data Transfer needs to be configured for initial load and consist of the configuration of MDMGX (on an SAP business system) and Data Import (on the MDG RDM system).

The configuration of MDMGX is done through the activation of the BC Sets /ITR/RDM_MDMGX_<n> (see: 3.3 "Activate Business Configuration Sets") on the SAP business system. This enables users to extract reference data objects from this system using transaction MDMGX.

Please also check section 3.3 "Activate Business Configuration Sets" for the activation of the Data Transfer on the MDG system (BC Sets /ITR/MDG_RDM_DT_<n>). These BC Set deliver the necessary object type definitions. After this configure Data Transfer in transaction MDGIMG: Data Transfer -> Define File Source and Archive Directories for Data Transfer. For details check the IMG documentation for this activity and the additional configuration example below.

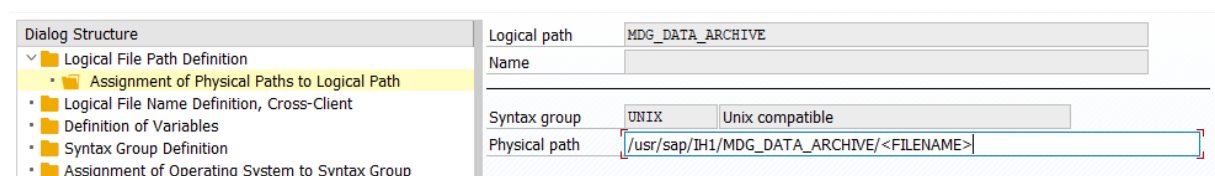
Transaction FILE:



Logical File Path	Name
MDG_DATA_ARCHIVE	Master Data Archive
MDG_DATA_IMPORT	Master Data Import

Logical path	MDG_DATA_IMPORT
Name	ITR MDG Data Import File Path
Syntax group	UNIX Unix compatible
Physical path	/usr/sap/IH1/MDG_DATA_IMPORT/<FILENAME>

e.g.: /usr/sap/<systemID>/MDG_DATA_IMPORT/<FILENAME>



Logical path	MDG_DATA_ARCHIVE
Name	
Syntax group	UNIX Unix compatible
Physical path	/usr/sap/IH1/MDG_DATA_ARCHIVE/<FILENAME>

e.g.: /usr/sap/<systemID>/MDG_DATA_ARCHIVE/<FILENAME>

Dialog Structure	
- Logical File Path Definition - Assignment of Physical Paths to Logical Path - Logical File Name Definition, Cross-Client - Definition of Variables - Syntax Group Definition	
Logical file	Name
MDG_DATA_ARCHIVE	Master Data Archive
MDG_DATA_IMPORT	Master Data Import

Dialog Structure	
- Logical File Path Definition - Assignment of Physical Paths to Logical Path - Logical File Name Definition, Cross-Client - Definition of Variables - Syntax Group Definition - Assignment of Operating System to Syntax Group	
Log. File	MDG_DATA_ARCHIVE
Name	Master Data Archive
Physical file	
Data format	BIN
Applicat.area	
Logical path	MDG_DATA_ARCHIVE

Dialog Structure	
- Logical File Path Definition - Assignment of Physical Paths to Logical Path - Logical File Name Definition, Cross-Client - Definition of Variables - Syntax Group Definition - Assignment of Operating System to Syntax Group	
Log. File	MDG_DATA_IMPORT
Name	Master Data Import
Physical file	
Data format	BIN
Applicat.area	
Logical path	MDG_DATA_IMPORT

Using transaction MDGIMG configure the usage of these directories:

- Master Data Governance, Central Governance - General Settings - Technical Settings for Master Data - Data Modeling - UI Modeling - Data Quality and Search - Process Modeling - Data Replication - Value Mapping - Key Mapping - Data Transfer - Define Object Types for Data Transfer - Define File Source and Archive Directories for Data Transfer

Dialog Structure	
- Data Transfer Directories - Archive Path for Object types	
Data Transfer Directories	
Logical File Path	Descript.
MDG_DATA_IMPORT	Master Data Import

Dialog Structure		Archive Path for Object types	
•  Data Transfer Directories		Obj. Type	Archive Directory
•  Archive Path for Object types		IBTL	MDG_DATA_ARCHIVE
		ICAG	MDG_DATA_ARCHIVE
		ICAR	MDG_DATA_ARCHIVE

Using MDMGX and Data Import all reference data object types which do not belong to a hierarchy can be extracted. See "Reference Data Management for SAP MDG - Functional Documentation" for usage details and the next section for details about the configuration and load of a product hierarchy.

3.14 Configure Product Hierarchy

If the product hierarchy is within the scope of maintained reference data object types additional steps need to be performed on the MDG RDM system as well as on the SAP business application system.

On the MDG RDM System the following activities need to be performed:

- Verify the product hierarchy usage in your business applications
- Configure the product hierarchy usage in RDM
- Check Interlocking
- Define Edition
- Creation of a Product Hierarchy Name
- Maintenance of number ranges
- Data Import (File Upload) after Data Export from the business application system

3.14.1 Verify the product hierarchy usage in your business applications

The RDM standard delivery assumes an SAP standard configuration of three levels and number ranges must be maintained according to the Product Hierarchy Set Up in the receiving business applications. The Set Up of the Product Hierarchy in an SAP business application is done through the definition of structure PRODHS.

To check the configuration use transaction SPRO and check the following entries:

✓ 	Logistics - General
>	Product Lifecycle Management (PLM)
>	Portal
✓ 	Material Master
>	Product Master Hierarchy - Media
> 	Configuring the Material Master
> 	Field Selection
> 	Basic Settings
✓ 	Settings for Key Fields
	 Define Material Groups
	 Maintain External Material Groups
	 Define Divisions
	 Define Material Statuses
	 Extend ABC Indicator
	 Define Laboratories and Offices
	 Define Basic Materials
	 Define Storage Conditions
	 Define Temperature Conditions
	 Define Container Requirements
	 Define Units of Measure Groups
	 Define PKWiU Classification for Poland
> 	International Article Numbers (EANs)
✓ 	Data Relevant to Sales and Distribution
	 Define Product Hierarchies
	 Define Sales Statuses

Structure:
Active

Short Description:

Attributes
Components
Input Help/Check
Currency/quantity fields

1 / 3

	Component	Typing Method	Component Type	Data Type	Length	Decima...	Coordinate	Short Description
☐	PRODH1	Types	▼ PRODH1	CHAR	5	0		0 Standard data element PRODH1
☐	PRODH2	Types	▼ PRODH2	CHAR	5	0		0 Standard data element PRODH2
☐	PRODH3	Types	▼ PRODH3	CHAR	8	0		0 Standard data element PRODH3

3.14.2 BC-Set Activation

Open Tx-SCPR20 and enter `/ITR/MDG_RDM_APPL_<n>`. Click Execute.
Check table `/ITR/PH ENUM GEN` in Tx-SM30.

Technical Note:

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To initialize the required control entries for the Product Hierarchy, you must manually execute the following program in each target client:

- **Program:** /ITR/INSERT_PROD_H_DRF_REPL

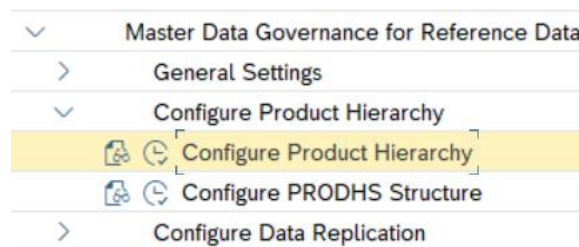
This step is mandatory to ensure the Data Replication Framework (DRF) settings for the product hierarchy are correctly populated.

3.14.3 Configure the product hierarchy usage in RDM.

3.14.3.1 Configure Product Hierarchy Level

Use transaction /ITR/RDMIMG.

Configure RDM Product Hierarchy level descriptions by selecting "Configure product Hierarchy".



Add Product Hierarchy Level and Description. Save the changes.

Product Hierarchy Level Config Table	
Prod.H.Lvl	Description (medium text)
1	Division
2	Brand
3	Segment

Standard – 3 Level | Extended - 6 Lil.

1	Division
2	Brand
3	Segment
4	Type
5	Series
6	Model

Note: In the standard delivery all levels are represented by Product Hierarchy Nodes. Optional configuration for Product Hierarchy Sub Nodes is possible and would be activated for the next level which is not defined in the configuration shown above. Example: a configuration of

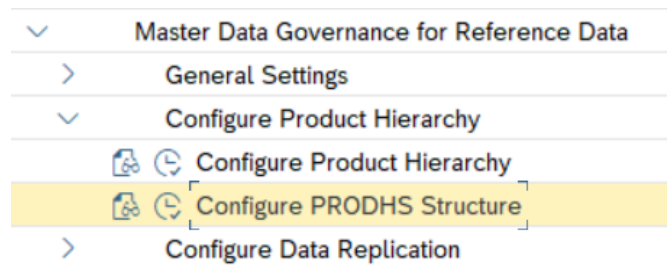
Division and Brand means that a level for "Segment" can be represented by Product Hierarchy Nodes. This might be useful If additional attributes should be defined for the "leaf nodes" of the Product Hierarchy.

3.14.3.2 Configure Product Hierarchy Structure

It is possible to define up to 9 levels and the number should add up to not more than 18 (0000018) characters.

Use transaction /ITR/RDMIMG.

Select "Configure PRODHS Structure".



Enter PRODH Field and length e.g. 6 level Length: 2-2-3-3-4-4.

Product Hierarchy Key Structure	
PRODHS fields	Length
☐ PRODH1	000002
☐ PRODH2	000002
☐ PRODH3	000003
☐ PRODH4	000003
☐ PRODH5	000004
☐ PRODH6	000004

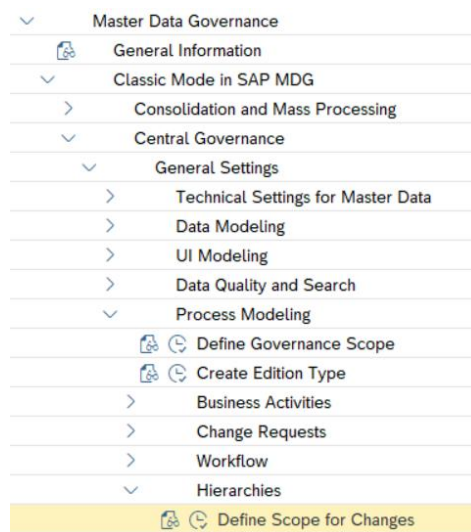
PRODH1	000002
PRODH2	000002
PRODH3	000003
PRODH4	000003
PRODH5	000004
PRODH6	000004

Example: Six-Level Hierarchy 2-2-3-3-4-4.

Display As:	Hierarchy	Levels	Find
☐ Prod Hier. Node	Description (Long)	External Number	
☐ > ProdHrchy			
☐ > 10000000	Pharma	01	
☐ > 20000003	Eucerin	0101	
☐ > 20000006	ABC-Wärme	0102	
☐ > 30000006	Heat therapy	0102001	
☐ > 40000001	Balm	0102001001	
☐ > 50000003	Warming Arnica Balm 100 g	01020010010001	
☒ 60000003	WARM-100g	010200100100010001	

3.14.4 Check Interlocking

Execute transaction MDGIMG: (Classic Mode in SAP MDG) -> Central Governance -> Process Modelling -> Hierarchies -> Define Scope for Changes -> Data Model I1 -> Scope for Changes -> Hierarchy Type: Product Hierarchy: PRODH -> Interlocking. This needs to be defined as "Strict" and shall not be changed as inconsistencies in the Product Hierarchy might occur.

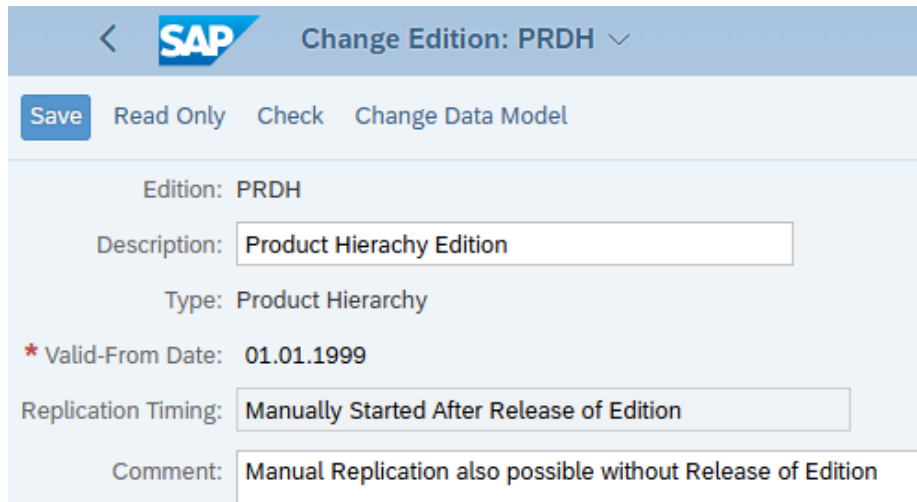


Hierarchy Type	Description	Interlocking
PRODH	Product Hierarchy	Strict

3.14.5 Define Edition

For the definition of an Edition start the Fiori Launchpad and select Analysis of Editions -> Create. Use Edition Type "Product Hierarchy (I1_PRODH)" and define the Data Replication Timing "Manually started after Release of Edition"

Example:



Note: Parallel editions are currently not supported.

3.14.6 Creation of a Product Hierarchy Name

The creation of the Product Hierarchy Name is done through a change request process. Start the Fiori Launchpad and select Change Requests -> Sales -> Product Hierarchy Name -> New -> Change Request Type: IPN01 (Create Product Hierarchy Name). Select your edition and continue.

The RDM system on default uses the Product Hierarchy Name ID "ProdHrchy". Submit and verify that the change request is finalized automatically.

3.14.7 Maintenance of number ranges

To ensure system compatibility and adequate capacity for different data sources, all number ranges must start at or above 10,000,000.

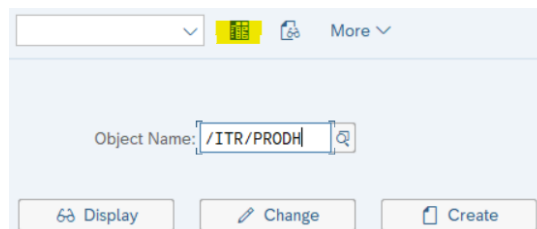
- **Reserved Space:** The range between 10,000,000 and 14,999,999 is specifically reserved for bulk uploads from external sources.
- **Manual Entry Threshold:** To prevent collisions and maintain a clear logical split, manual creation in the User Interface should always begin above this threshold (e.g., starting at 15,000,000).

For the first level of the hierarchy, the ranges are split as follows:

Data Source	Range Assignment	Logic
-------------	------------------	-------

File Uploads	10,000,000 – 14,999,999	Provides 5 million slots for external data.
Manual Creation	15,000,000 – 19,999,999	Starts with digit '15' to signify Level 1 manual entry.

The maintenance of number ranges starts with definition of the “From Number” and the “To Number” for each level of the Product Hierarchy Nodes and the (optional) Product Hierarchy Sub Nodes. After the initial load of the Product Hierarchy also the Number Range Status needs to be maintained before new Nodes or Sub Nodes can be created. Use transaction SNRO (Object: /ITR/PRODH) and choose “Interval Editing” for the maintenance process.



Create an interval. An example is shown below.

Number Range No.	From No.	To Number	NR Status	External
☐ 01	000000000015000000	000000000019999999	0	☐
☐ 02	000000000025000000	000000000029999999	0	☐
☐ 03	000000000035000000	000000000039999999	0	☐
☐ 04	000000000045000000	000000000049999999	0	☐
☐ 05	000000000055000000	000000000059999999	0	☐
☐ 06	000000000065000000	000000000069999999	0	☐

01	000000000015000000	000000000019999999
02	000000000025000000	000000000029999999
03	000000000035000000	000000000039999999
04	000000000045000000	000000000049999999
05	000000000055000000	000000000059999999
06	000000000065000000	000000000069999999

3.14.8 Define Replication Model

Open MDGIMG → Define Custom Settings for Data Replication → Define Replication Models

☐	General Settings
☐	Technical Settings for Master Data
☐	Data Modeling
☐	UI Modeling
☐	Data Quality and Search
☐	Process Modeling
☐	Data Replication
☐	Overall Information
☐	Define Custom Settings for Data Replication
☐	Define Technical Settings
☒	Define Replication Models

Select the Replication Model RDM and open "Assign Outbound Parameter".

Dialog Structure

- Define Replication Model
- Assign Outbound Implementation
 - Assign Target Systems for Replication
 - Assign Outbound Parameter
 - Assign Download Variants
 - Assign Languages

Define Replication Model

Replication Model	Description	Log Days	Data Model	Active
☒ RDM	Reference Data Management	15	I1	☒

Activate Deactivate

Search for /ITR/PRODN.

ID1(1)/100 Determine Work Area: Entry

Field Name

Work Area

Replication Model:

RDM

Outbound Implementation:

/ITR/PRODN

Further select cond.

Append

Enter "/ITR/PRODHIER_DELETE" as the Outbound Parameter and "Y" as the Outbound Parameter Value. Then, save the changes.

Rep. Model: RDM

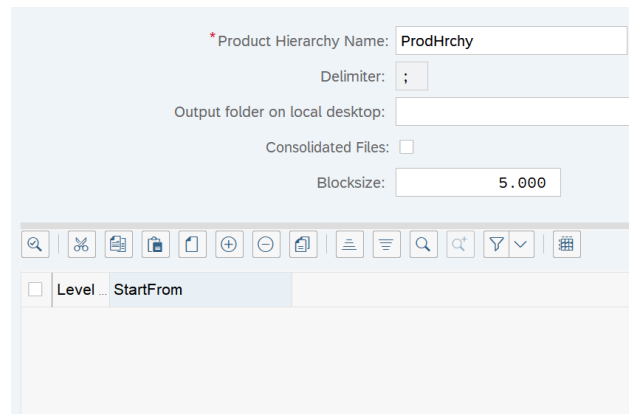
Outbound Implementation: /ITR/PRODN

Assign Outbound Parameter

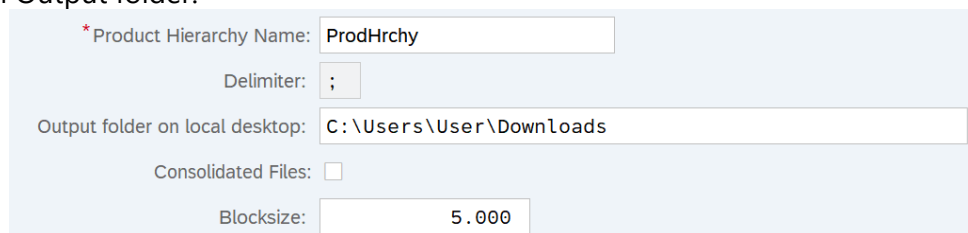
Outbound Parameter	Outbound Parameter Value
/ITR/PRODHIER_DELETE	Y

3.14.9 Data Export from business application system

For the data export from the SAP business application system execute transaction SA38 and choose report /ITR/MDG_PRODH_EXPORT to extract the product hierarchy using the defined number ranges which have been configured for MDG RDM.



Select an Output folder.



- **Consolidated Files:** Only check off Consolidated Files if you have a smaller 'Product Hierarchy' and want to output less consolidated files.
- **Block size:** Change the number of entries in a single file by editing the block size. Having fewer entries will increase the performance, but you may end up with more output files, depending on the size of the hierarchy.

Add level and Start From – use the levels you configured earlier. Then, execute the report.

☐	Level ...	StartFrom
☐	1	10000000
☐	2	20000000
☐	3	30000000
☐	4	40000000
☐	5	50000000
☐	6	60000000

Files without extra letter contains the following attributes separated by ;
Product Hierarchy Node;Description;External Number; Prod.Hier.Level;Prefix;Suffix.

Attribute	Explanation
Product Hierarchy Node	Unique internal MDG key
Description (long text)	Node Description
External Number	Unique external ERP key consisting of all external numbers (prefix) of the parent nodes and the current external number (suffix). The length of the current key is configured in Step 1.3 Configure Product Hierarchy Structure
Prod.Hier. Level	Current Node Level configured in 1.2 Configure Product Hierarchy Level
External Number Prefix	Keys of the parent nodes that have been attached to each other
External Number Suffix	Current external number

Hierarchy – H Files contain the following attributes separated by ;
Higher Level Name; Higher Level Node; Lower Level Node

Attribute	Explanation
Higher Level Name	Product Hierarchy Name –only ProdHrchy is available as Name
Higher Level Node	Parent Node – the node above the current node
Lower-Level Node	Child Node - the node below the current node

3.14.10 Data Import (File Upload)

After the Data Export the created files must be loaded to the MDG RDM system using File Upload. This should be done in the following sequence for a product hierarchy with 3 levels:

- Level 1 to 3: attributes and texts
- Level 1: hierarchy assignments of level 1 nodes to the product hierarchy name
- Level 2: hierarchy assignments of level 2 nodes to level 1 nodes
- Level 3: hierarchy assignments of level 3 nodes to level 2 nodes

File Name	Type of Transfer
-----------	------------------

Only Level	Attribute
Level + H	Hierarchies
Level + T	Language-Dependent Texts

Please verify that all numbers have been generated according to the number ranges defined.

3.14.10.1 Create Variants

Defining upload variants is a prerequisite for the data import process, as they establish the technical mapping required for the system to interpret the hierarchy levels and language-dependent texts correctly:

- Level 1 attributes and texts (PH_NO_ATT and PH_NO_TXT)
 - o Entity Type: Product Hierarchy Node

Attributes Data Row: Product Hierarchy Node, External Number, Prod.Hier. Level

* Variant: PH_NO_ATT 

Name: Product Hrchy Node attributes

☐ Header
☐ Data Row
☐ Product Hierarchy Node
☐ External Number
☐ Prod.Hier. Level

Selected






☐ Entity Type / Attribute
☐ Header
☐ Data Row
☐ Product Hierarchy Node
☐ Description (long text)
☐ Prod.Hier. Level
☐ External Number
☐ External Number Prefix
☐ External Number Suffix

- o Texts Data Row: Product Hierarchy Node, Language Key, Description (long text)

* Variant: PH_NO_TXT 

Name: Product Hrchy Node texts

☐ Entity Type / Attribute
☐ Header
☐ Data Row
☐ Product Hierarchy Node
☐ Language Key
☐ Description (long text)

- Level 2 (and higher) attributes and texts
 - o Same Entity Type and variants as for Level 1 Nodes

- Level 1 hierarchy assignments of level 1 nodes to the product hierarchy name
 - o Entity Type: Product Hierarchy Node
 - o Higher-level Node: Product Hierarchy Name
 - o Lower-level Node: Product Hierarchy Node
- Level 2 (and higher) hierarchy assignments of level 2 nodes to level 1 nodes
 - o Entity Type: Product Hierarchy Node
 - o Higher-level Node: Product Hierarchy Name, Product Hierarchy Node
 - o Lower-level Node: Product Hierarchy Node

3.14.10.2 Initial Load

Use the variants above (for Nodes, Hierarchy and Texts) to load the data via "File Upload".

Nodes:

General Settings

Entity Type:*

Type of Transfer:*

Edition:* [Product Hierarchy Edition](#)

Variant

Variant: [RDM - Upload Product Hierarchy Node](#)

Texts:

General Settings

Entity Type:*

Type of Transfer:*

Edition:* [Product Hierarchy Edition](#)

Variant

Variant: [RDM - Upload Product Hierarchy Node Text](#)

Hierarchy:

General Settings

Entity Type:*

Type of Transfer:*

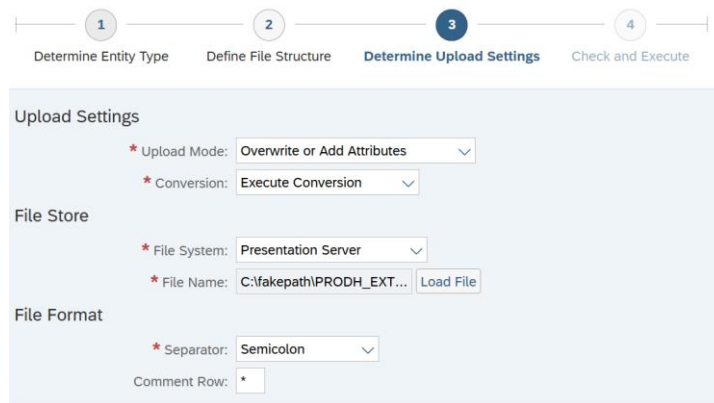
Edition:* [Product Hierarchy Edition](#)

Variant

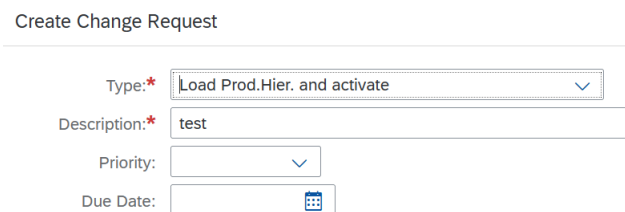
Variant: [RDM - Upl. Prod. Hier. Node Hierarchies](#)

- Upload Mode: "Overwrite or Add"
- Conversion: "Execute Conversion"

- File System / File Name: <upload directory>
- Separator: "Semicolon"
- Comment Row: "



- Change Request Type: "Load Prod. Hier. And activate"
- Description: <any>



After each File Upload check the objects using the search application for the object: Change Requests -> Processing -> Sales -> Product Hierarchy Node.

After this the maintenance of the product hierarchy can start and the next created nodes (using the Single Object Maintenance) will get the next number. Nodes which are created by File Upload will get the numbers which are specified in the files. Aligned with the examples used above make sure that you use numbers from the following number ranges for the creation of new nodes (example for a three-level hierarchy):

- 1: 10000000 - 14999999
- 2: 20000000 - 24999999
- 3: 30000000 - 34999999

3.14.10.3 Upload new nodes

Before uploading new nodes, the last uploaded nodes must be checked.

	Number Range No.	From No.	To Number
☐	01	000000000015000000	000000000019999999
☐	02	000000000025000000	000000000029999999
☐	03	000000000035000000	000000000039999999
☐	04	000000000045000000	000000000049999999
☐	05	000000000055000000	000000000059999999
☐	06	000000000065000000	000000000069999999

Upload Nodes Level 1 are between 10.000.000 and 14999999.

Open Product Hierarchy Nodes in Fiori. Check for each level the latest created note outside the range by search criteria for Range.

Search Criteria
Saved Searches:

Product Hierarchy Node
between
20000000
24999999

The next available node for Range 2 is 20000005.

Result List: 5 records found

New

Change Documents

Replication Status

☐	Pendin...	Product Hierarchy ...	Description (long text)	External Numbe
☒		20000000	Eli Lilly	0106
☐		20000001	Roche	0112
☐		20000002	Sanofi	0113
☐		20000003	Krombacher	1401
☐		20000004	Protein	1601

Upload the Nodes, Texts and Hierarchy as described in the Initial Load Section.

Note:

The upload file may only contain the new parts of the hierarchy. You can't change the nodes that are already part of the hierarchy with this upload option. To change an existing Hierarchy, see next chapter.

3.14.10.4 Change existing Hierarchy

The only way to change an existing hierarchy by upload is the Upload Mode - Delete All. This deletes all previous connections. Include all parts of the existing hierarchy you want to keep in the file.

Select Type of transfer Hierarchies and select Variant – ITR_PRODHC.

General Settings

* Entity Type: Product Hierarchy Node

* Type of Transfer: Hierarchies

* Edition: PRDH [Product Hierarchy](#)

Variant

Variant: ITR_PRODHC [RDM - Change existing Prod. Hierarchies](#)

Load the Hierarchy File. Select Hierarchy Change Request and execute upload.

Create Change Request

Type: Hierarchy Proc. Prod. Hier. w Activate

Description: test

Priority:

Due Date:

3.14.11 Data Download

Open the File Download and select.

- Entity Type - Product Hierarchy Node,
- Type of Transfer - Attributes, Edition
- Variant - ITR_PRODN

General Settings

Entity Type: Product Hierarchy Node

Type of Transfer: Attributes

Edition: PRDH [Product Hierarchy Edition](#)

Variant

Variant: ITR_PRODN [RDM - Upload Product Hierarchy Node](#)

Press Next until your able to Execute, then save.

Go back and change Type of transfer to Hierarchies and select Variant – ITR_PRODHNH.

General Settings

Entity Type: Product Hierarchy Node

Type of Transfer: Hierarchies

Edition: PRDH [Product Hierarchy Edition](#)

Variant

Variant: ITR_PRODHNH [RDM - Upl. Prod. Hier. Node Hierarchies](#)

Press Next until your able to Execute, then save.

Go back and select Type of Transfer - Language-Dependent Texts and Variant - ITR_PRODNT.

General Settings

Entity Type:* Product Hierarchy Node

Type of Transfer:* Language-Dependent Texts

Edition:* PRDH  Product Hierarchy Edition

Variant

Variant: ITR_PRODNT  RDM - Upload Product Hierarchy Node Text

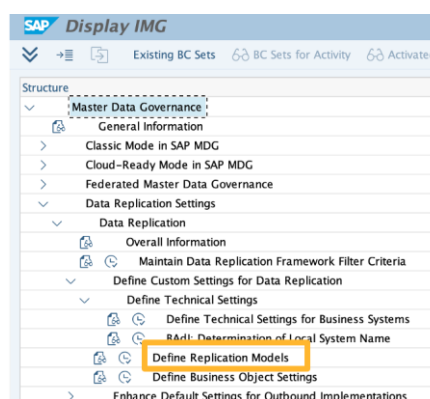
Press Next until your able to Execute, then save.

3.14.12 Enabling 'Add to Change Request' Functionality

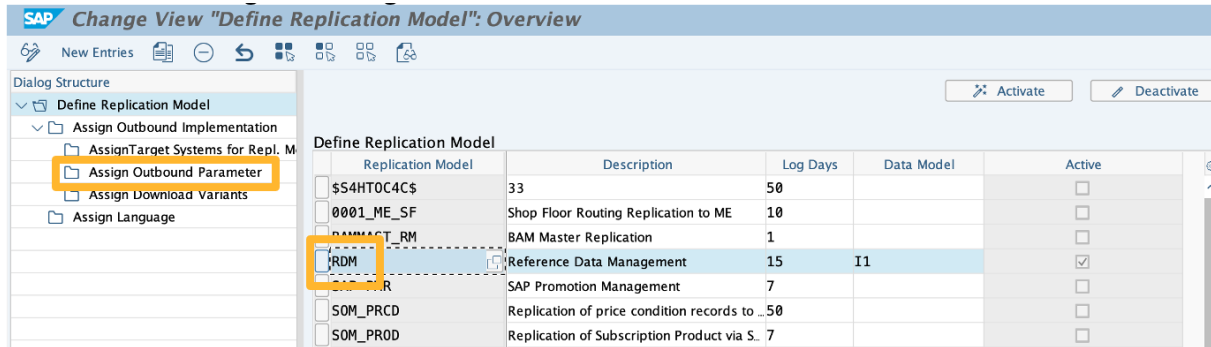
To enable the "Add to Change Request" functionality in the user interface, the corresponding [SAP Note 3668887](#) must be implemented in the system. This note ensures that the required backend functionality is available and prevents dumps during processing. This functionality ensures that the description of existing hierarchy nodes can be changed without the need to navigate to the change request itself. Mark the node, add it to the change request and change the description. Without this functionality you need to navigate to the change request and add the hierarchy node manually before you can change the description.

3.14.13 Delete Hierarchy

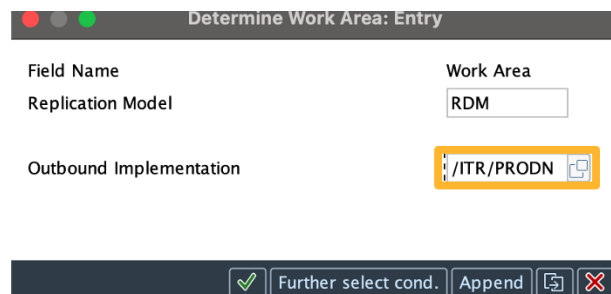
To delete a Product Hierarchy the specific parameter must be set. Open Tx *MDGIMG* and select „Define Replication Model “.



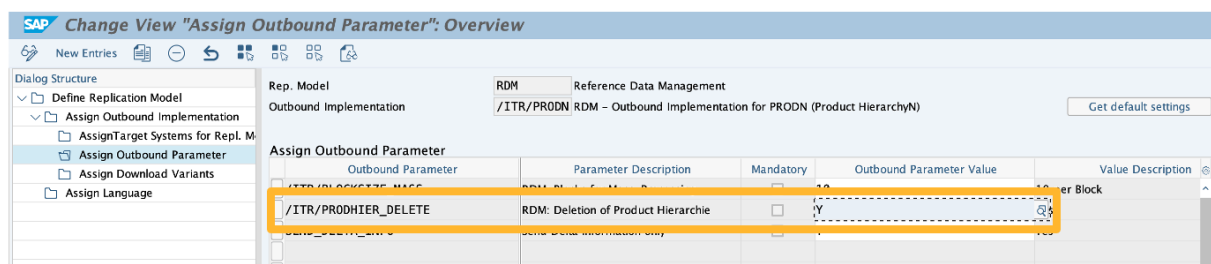
Select „RDM“ and go to „Assign Outbound Parameter “.



Enter „/ITR/PRODN“ for Outbound Implementation.



Here the Outbound Parameter „Y“ can be set for the deletion.

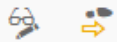


3.15 Configure Classification

Classes and Characteristics are implemented with an internal numbering. This means that number ranges need to be maintained using the transaction SNRO (or SNUM). Examples:

Classes:

Edit Intervals: Classification, Object /ITR/CLF



Number Range No.	From No.	To Number	NR Status	External
01	0000000001	9999999999	60	☐

Characteristics:

Edit Intervals: Characteristics, Object /ITR/CHAR



Number Range No.	From No.	To Number	NR Status	External
01	0000000001	9999999999	40	☐

Additionally, a prefix for the temporary keys needs to be defined:

Display IMG

Existing BC Sets BC Sets for Activity

Structure

- Master Data Governance, Central Governance
 - General Settings
 - Technical Settings for Master Data
 - Data Modeling
 - Edit Data Model
 - Define Business Object Type Codes
 - Define Entity Type to Be Used by Business Object Type
 - Define Prefixes for Internal Key Assignment
 - Define Authorization Relevance per Entity Type

Change View "Prefix for Temporary Keys": Overview

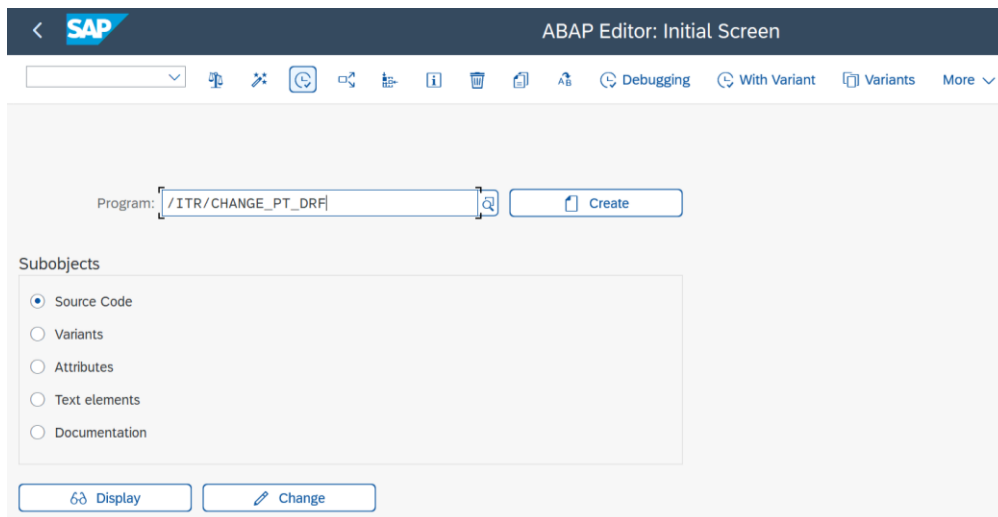
New Entries

Data Model	Entity Type	Prefix
I1	CHARHEAD	\$
I1	CLASSHEAD	\$

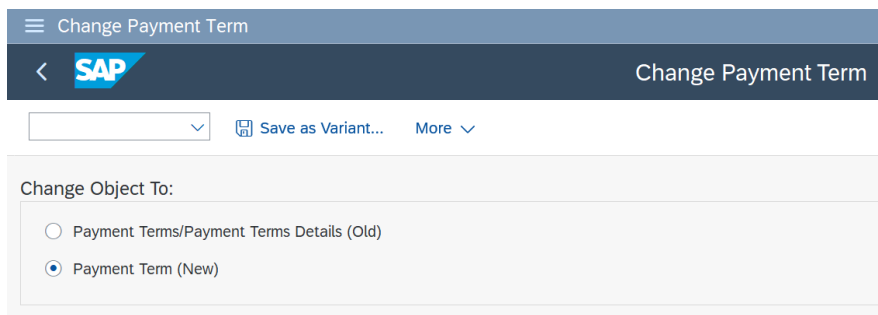
3.16 Configure Payment Term

Since Release R2603, the Payment Term object has been enhanced to combine Payment Terms and Payment Term Details into a single object with a unified user interface. This reduces the maintenance effort associated with managing two separate objects and user interfaces.

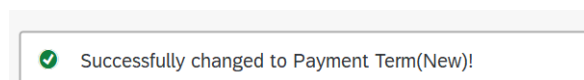
To move to the new version of Payment Term for data replication, a report is needed. Execute the report program `/ITR/CHANGE_PT_DRF` via Tx `SE38`.



Choose option '*Payment Term (New)*' and press "Execute".



After execution it confirms the switch to the new Payment Term.



3.17 Configure Public Holiday

If the Public Holiday is within the scope of maintained reference data object types of additional steps need to be performed on the MDG RDM system for the correct data import and number range settings.

Prerequisite:

- Data Export from SAP S/4 has been executed.

Step 1: Set Number Range

- Transaction: SM30
 - Table/View: /ITR/NRO_FTGID
 - Maintain
 - Entity Type: FTGID
 - Public hol. ID: 000

Step 2: Data Import

- Execute Data Import or File Upload
- Execute Search (with Maximum Number of Hits = 5000) and identify the last number

Step 3: Set Number Range Status

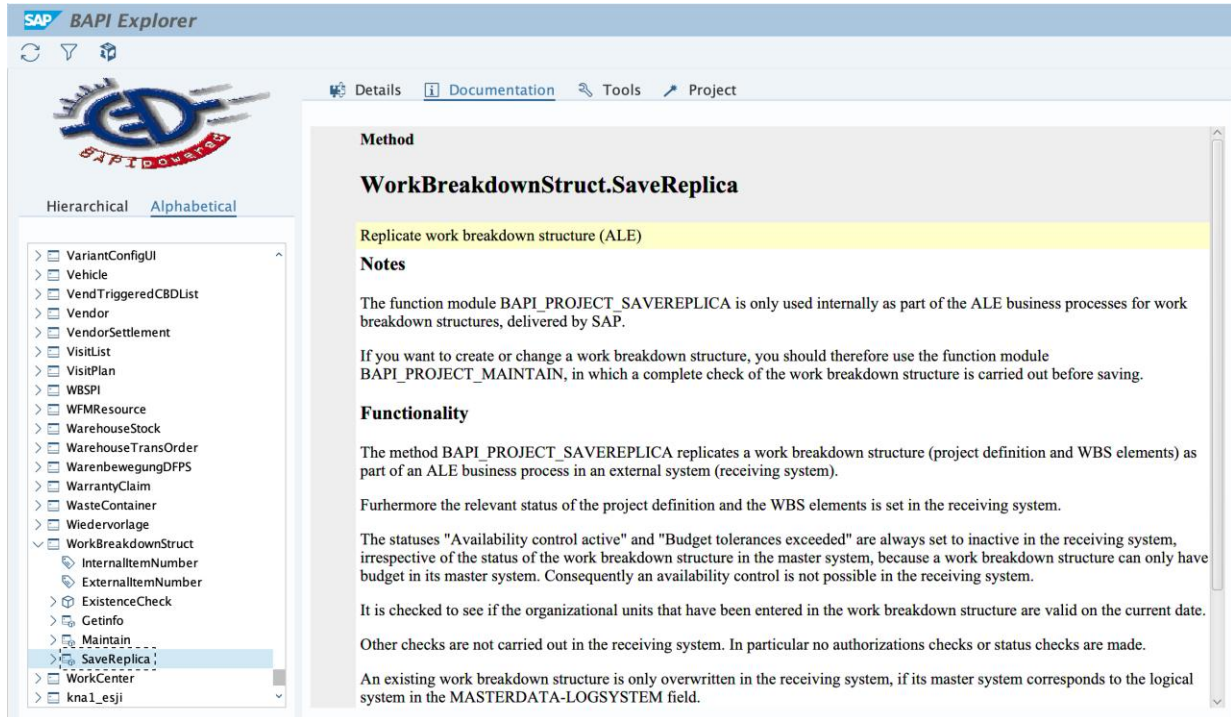
- Transaction SM30
 - Table/View: /ITR/NRO_FTGID
 - Maintain
 - Entity Type: FTGID
 - Set Public hol. ID to the last number identified from step 2.

3.18 Configure Work Breakdown Structure

The configuration of the Work Breakdown Structure (WBS) ensures that project hierarchies and elements are replicated accurately across the SAP landscape. This section details the setup of the Application Link Enabling (ALE) framework using BAPI-based integration. Additionally, it covers the export and import procedures required for initial data loads or manual synchronization.

3.18.1 Replication of WBS Elements

To configure the ALE-based Replication of the Work Breakdown Structures, you need to establish a connection between the source and target SAP instances using the standard ALE framework. Unlike traditional IDoc-based transfers, this specific scenario utilizes a BAPI-based integration to ensure data integrity across systems. See Tx BAPI:



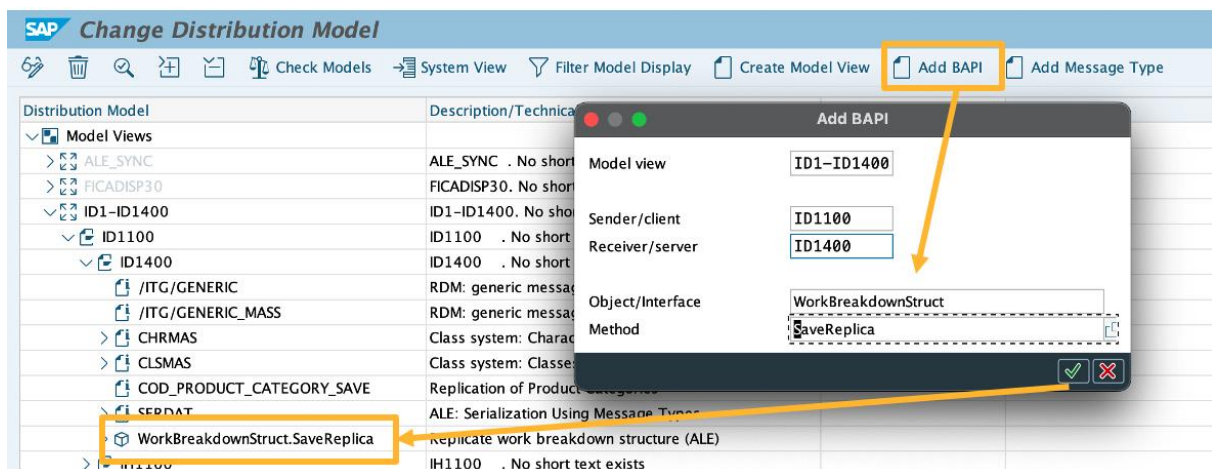
First, maintain the distribution model via Tx BD64.

Click Edit and select "Add BAPI".

Enter the Model view, your sender and receiver system.

- For Object/Interface enter: *WorkBreakdownStruct*
- For Method enter: *SaveReplica*.

Confirm and save.

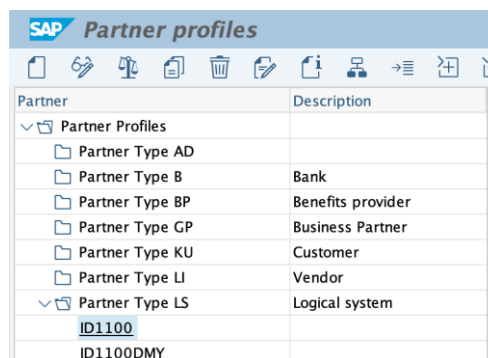


Save the model, generate the Partner Profiles (Environment -> Generate Partner Profiles), and distribute the model to the target system.

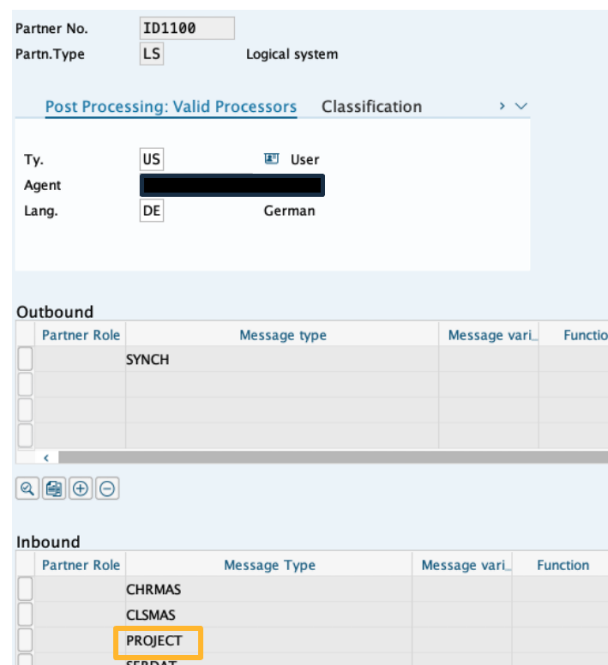


To ensure the target system can process the incoming data, you need to verify the settings in the target system.

Open Tx WE20 and locate the Partner Type LS (Logical System) for your sender system.



Find the Inbound Parameter for Message Type *PROJECT* and select it.



Ensure the Process Code is set to BAPI.

SAP Partner Profiles: Inbound Parameters

Partner No. ID1100

Partn.Type LS Logical system

Partner Role

Message Type PROJECT Replicate entire work breakdown stru.

Message code

Message function ☐ Test

Inbound options Post Processing: Valid Processors Telephony

Process code BAPI Inbound BAPI IDoc: Individual proc...

☒ Cancel Processing After Syntax Error

Processing by Function Module

☐ Trigger by background program

☒ Trigger Immediately

[Options](#)

3.18.2 Export, Import and Upload WBS

The Work Breakdown Structure (WBS) provides a hierarchical breakdown of a project into manageable and clearly defined work elements. It consists of the Project Definition, its WBS-Elements and the hierarchy. Therefore the export will consist of three files (for the Project Definition, Elements and Hierarchy) that then need to be uploaded.

3.18.2.1 Export

To perform a complete export of the Work Breakdown Structure, both the MDMGX extraction and the custom report must be executed. This dual approach is mandatory because the standard extraction and the hierarchy structure use different technologies and formats:

- MDMGX Extraction: Downloads master data as XML files. These files must be transferred to the application server (e.g., via Tx CG3Z) and subsequently imported using the Data Transfer Tool (DTIMPORT).
- Report-Based Export: Generates TXT files specifically to capture the hierarchy relationship. These files are designed for direct upload via the Fiori Launchpad File Upload application.

To export the Work Breakdown Structure open Tx MDMGX, select "Start Extraction" and enter/select:

- Reposit. Name (Code): *MDG_ITR_PSPID*
- Local download

Then choose a File directory and execute.

Reposit. Name (Code):	MDG_ITR_PSPID		
Object Type:	WorkBreakStructure		
Address of FTP Server:			
MDM Root:	PSPID_LIST		
Port Name (Code):		to:	
* Process Level(0,1,2,...):	0		
Local download:	☒		
Download to Appl. Server:	☐		
File directory:	C:\Users\Downloads		

The WBS hierarchy is not included in the exported files. Use the following Report for the Hierarchy File and use the File Upload in the Fiori Launchpad.
For that start the report `/ITR/MDG_WBS_EXPORT` via `Tx SE38`.
Enter an output folder.

The Report generates 3 Files.

1. `PROJ_EXTRACT.txt`
2. `WBS_EXTRACT.txt`
3. `WBS_HIERARHCY_EXTRACT.txt`

The 3 files can either be uploaded to the Fiori Launchpad or the XML files can be imported and only the WBS Hierarchy needs to be uploaded.

3.18.2.2 Import

Open Tx CG3Z and select the source file.

Enter the target file on application server:

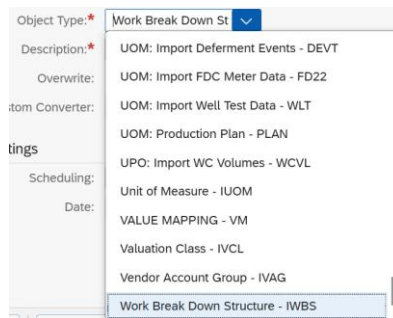
`/usr/sap/SYSTEM_ID/MDG_DATA_IMPORT/FileName.xml`

IH1(1)/100 Upload File: Parameters		×
Source file on front end		
C:\Users\Downloads\WBS_PRPS_554_IH1400.xml		
Target file on application server		
/usr/sap/IH1/MDG_DATA_IMPORT/WBS_PRPS_554_IH1400.xml		
* Transfer format for data:	BIN	☐ Overwrite file

Repeat for all xml files.

To import the files open „Import Master Data“ in the Fiori Launchpad.

Choose Object Type „IWBS“.



Check Governance and choose a CR-Type.

Governance Settings

Governance: ☒

Post Processing: Defined by Chang ...

Change Request Type: IWB1SL1

Edition:

Add the Data Source and Source Directory.

Data Sources	
Add Show Directory Content	
☒ Object Type	Source Directory
☒ RDM : Project Definition	MDG_DATA_IMPORT

Then execute the import.

Import Simulate Import Custom Converter Settings Display Monitoring

Import Settings

Object Type:* Work Break Down ...

Description:* TEST

Overwrite: ☐

Custom Converter:

Governance Settings

Governance: ☒

Post Processing: Defined by Chang ...

Change Request Type:* IWB1SL1

Edition:

Scheduling Settings

Scheduling: Import Now

Date: Time: 00:00...

Parallel Processing Settings

Parallel Processing: ☐

Queue name:*

Number of Processes:* 0

Data Sources

Add Show Directory Content

☒ Object Type	Source Directory
☒ RDM : Project Definition	MDG_DATA_IMPORT

Display Monitoring to check if the import process was successfully completed.

	Object Type	Run Number	Start Date	Start Time	End Date	End Time	Duration	Status	Application	User
☐	Work Break Down Structure	10000079	30.03.2026	15:23:16	30.03.2026	15:23:18	00:00:02		Data Load Import	IT_ALL_06

3.18.2.3 Upload

It is not necessary to upload the Project Definition and WBS Elements after the file import. It is only necessary for uploading the WBS Element Hierarchy.

3.18.2.3.1 Upload Project Definition

Open the „Upload File“ tile in the Fiori Launchpad and select the ITR_PSPID variant.

General Settings

Entity Type:* Project definition

Type of Transfer:* Attributes

Variant

Variant: ITR_PSPID RDM - Upload Project Definition

Load the *PROJ_EXTRACT* File in Step-3.

Upload Settings

Upload Mode:*

Conversion:*

File Store

File System:*

File Name:*

File Format

Separator:*

Comment Row:

Press „Next“ and create a Change Request. Then, execute the upload.

Create Change Request

* Type:

* Description:

Priority:

Due Date:

Reason:

Note:

3.18.2.3.2 Upload WBS Elements

Open the „Upload File“ tile in the Fiori Launchpad and select the ITR_POSID variant.

General Settings

* Entity Type:

* Type of Transfer:

Variant

Variant:

Load the *WBS_EXTRACT* File in Step-3. Then, execute the upload.

Upload Settings

Upload Mode:*

Conversion:*

File Store

File System:*

File Name:* [Load File](#)

File Format

Separator:*

Comment Row:

3.18.2.4 Upload WBS Hierarchy

Open the „Upload File“ tile in the FLP and select the *ITR_WBSEH* variant.

General Settings

Entity Type:*

Type of Transfer:*

Variant

Variant: [RDM - Upload WBS Element Hierarchies](#)

Load the *WBS_HIERARCHY_EXTRACT* File in Step-3. Then, execute the upload.

Upload Settings

Upload Mode:*

Conversion:*

File Store

File System:*

File Name:* [Load File](#)

File Format

Separator:*

Comment Row:

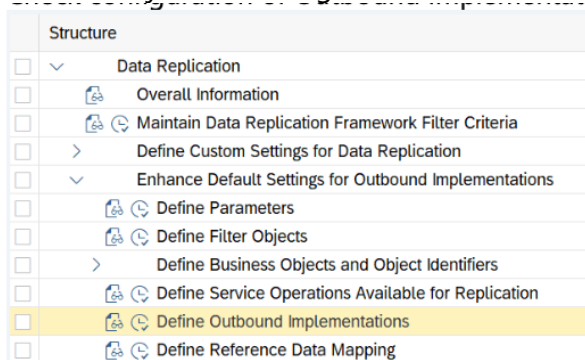
3.19 Configure Initial Load of Exchange Rates

For customers processing a large volume of exchange rates during an initial mass load, a potential performance issue has been identified in the standard system setup, which can lead to application dumps depending on the memory size of the system to be loaded.

To resolve this issue and ensure stable performance during the initial mass load of exchange rates, you must apply a specific configuration with regards to the IDoc packaging size for the relevant outbound implementation.

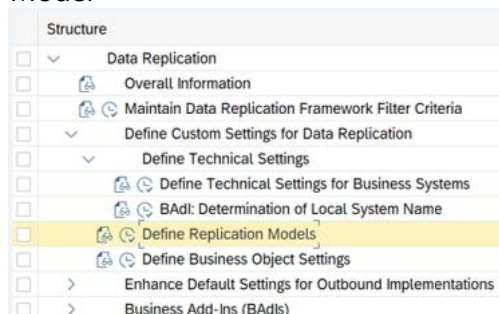
Start transaction DRFIMG.

Check or adjust the configuration of the Outbound Implementation.

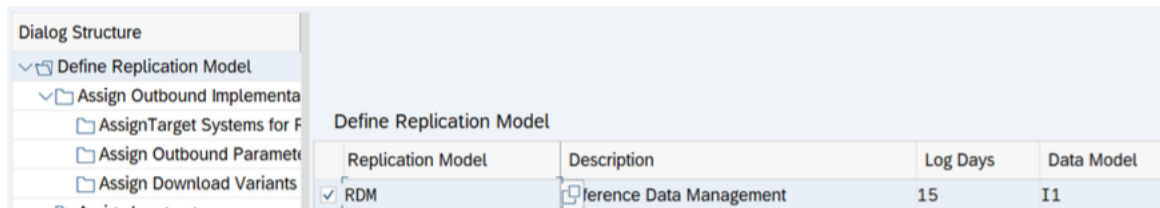


Dialog Structure		Define Outbound Implementation			
- Define Outbound Implementation - Assign Segment Filter Objects - Assign Outbound Parameter - Define Values of Outbound Parameter - Assign Entity Type and SMT Mapping		OutbImpl.	Outbound Implementation Class	FilterTime	Name in ESR
		☒ / ITR/CUR_E	/ ITR/CL_CUR_EXRA_OUT_IDOC_MASS	☐	
		☐ / ITR/DISMM	/ ITR/CL_DISMM_OUT_IDOC	☐	
		☐ / ITR/DISPO	/ ITR/CL_DISPO_ET1_OUT_IDOC	☐	
		☐ / ITR/DISPR	/ ITR/CL_DISPR_OUT_IDOC	☐	

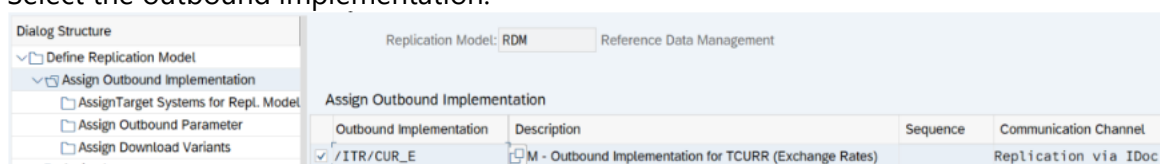
Configure your Replication Model



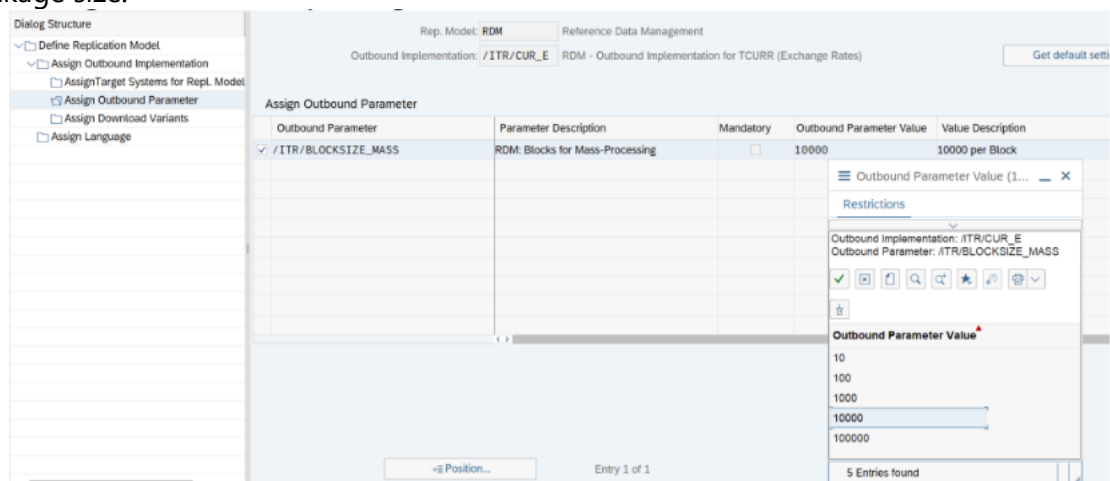
Select your Replication Model



Select the outbound implementation.



Within the configuration settings for the outbound implementation, configure a suitable package size.



It is recommended to set the IDoc package size such that the system creates IDocs in packages of 10,000. This package size ensures stable performance during the initial mass load and that the receiving system can process all packages efficiently. Please adjust if this setting does not meet the requirements of your SAP system. You might use higher or lower numbers depending on your system sizing.

3.20 Set Up Local Staging Area

The configuration of the Local Staging Area in the SAP receivers can be done by importing BC Set /ITR/RDM_STAGING_<n> "MDG RDM Staging Settings" (see: 3.3 "Activate Business Configuration Sets"). Make sure that you must do this for each SAP receiver.

Also make sure that you define users with role /ITR/MDG_STAGING_<n> "User for Local Staging Area". See section 3.5 "Configure User Roles and Authorizations".

Note: any user, who wants to run the transaction /ITR/STAGING needs write-access to the transport directory of the corresponding ERP system. In most cases, the directory usually is "/usr/sap/trans", but could also be called differently. It might therefore be necessary to check the folder path with SAP basis and provide access for the user.

3.21 Solution Manager Integration

Please refer to the separate document "MDF Solution Manager Integration".

To obtain more information about these and other project specific enhancements contact: support@itego.de - Subject: "RDM Solution Manager Integration".

3.22 Project Specific Enhancements

MDG RDM offers functionalities which are not activated and not supported in the standard delivery but can be activated based on project specific requirements. Examples are:

- Status Net (Controlled maintenance of an object status)
- Object Deletion (Governed deletion of objects)

To obtain more information about these and other project specific enhancements contact: support@itego.de - Subject: "RDM Project Specific Enhancements".

4 Configuration for Reference Data Harmonization

4.1 Activate Business Configuration Sets

4.1.1 SAP MDG: BC Sets

4.1.1.1 *Software Component ITG*

To get predefined Configuration Groups for Reference Data Harmonization please also consider activating the following BC Set (please be aware that these are needed only when you use the MDG system for the synchronization of reference data types which are not covered in your Reference Data Governance scenarios):

- /ITR/RDH_CONFIG_GROUPS_<n> RDH Configuration Groups

4.2 Configure User Roles and Authorizations

4.2.1 Reference Data Harmonization – Sender

The following roles are delivered for Reference Data Harmonization (on the sender system which might be in most case SAP MDG) and define which actions are allowed for which user.

- /ITR/ITEGO_MDG_RDH_DISP_<n>S Display Functions in the Sender-System
- /ITR/ITEGO_MDG_RDH_BUSINES_<n>S Business Functions in the Sender-System
- /ITR/ITEGO_MDG_RDH_EXPERT_<n>S Expert Functions in the Sender-System

4.2.2 Reference Data Harmonization – Receiver

The following roles are delivered for Reference Data Harmonization (on the receiver system which might be the SAP MDG system when data is consolidated in a first step in SAP MDG) and define which actions are allowed for which user.

- /ITR/ITEGO_MDG_RDH_DISP_<n>E Display Functions in the Receiver-System
- /ITR/ITEGO_MDG_RDH_BUSINES_<n>E Business Functions in the Receiver-System
- /ITR/ITEGO_MDG_RDH_EXPERT_<n>E Expert Functions in the Receiver-System

5 Configuration Examples

5.1 Data Replication based on SAP ALE

Most RDM objects will be replicated using a generic message type. This section shows how to set this up based on two systems:

- RDM for MDG (sender): System IH1, client 100
- SAP Business System (receiver): System IR1, client 200

Please adjust the examples below to your own system landscape.

5.1.1 Prerequisite: RFC Destination

System IH1 100: Check or create an RFC destination to system IR1 200 using transaction SM59:

RFC Destination IR1200	
Remote Logon	Connection Test
RFC Destination	IR1200
Connection Type	3 ABAP Connection
Description	
Description 1	IR1200 S/4 Receiver
Description 2	
Description 3	

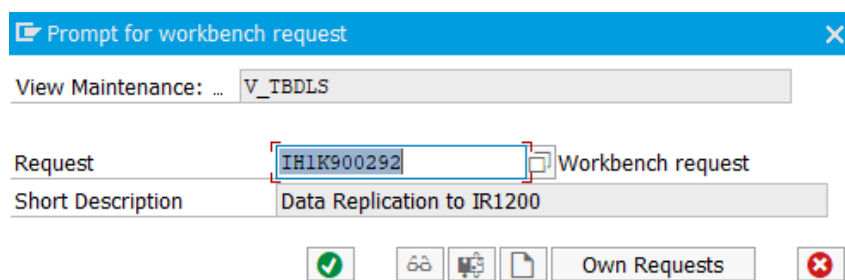
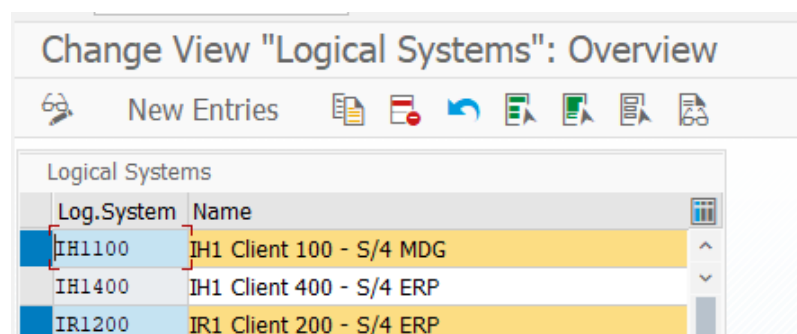
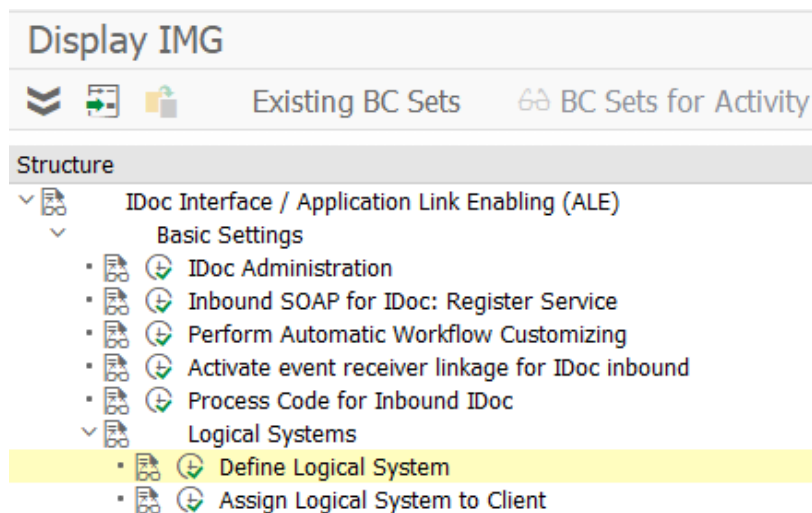
Connection Test

Connection Test should be successful.

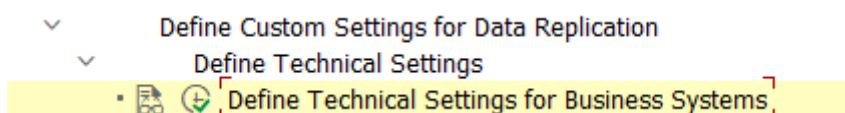
Action	Result
Logon	3 msec
Transfer of 0 KB	1 msec
Transfer of 10 KB	1 msec
Transfer of 20 KB	1 msec
Transfer of 30 KB	1 msec

5.1.2 Define Logical System and Check or Create Business System

System IH1 100, transaction SALE:



Check or Create Business System: System IH1 100, transaction DRFIMG.



Change View "Define Business Systems": Overview

New Entries

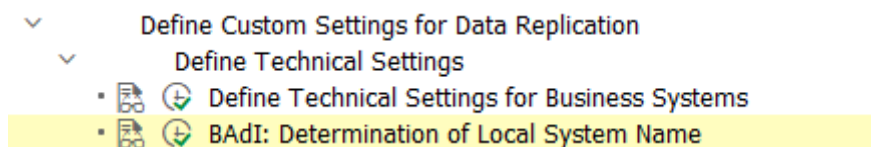
Dialog Structure

- Define Business System
 - Define Bus. Systems
 - Define Bus. System

Define Business Systems		
Business System	Logical System	RFC Destination
IH1100	IH1100	
IH1400	IH1400	IH1400
IR1200	IR1200	IR1200

5.1.3 Check or Create BAdI for determination of local system name

System IH1 100, transaction DRFIMG:



Or use transaction SE18, BAdI Name: MDG_IDM_GET_LCL_SYSTEM

BAdI Builder: Initial Screen for Definitions

Enhancement Spot

BAdI Name: MDG_IDM_GET_LCL_SYSTEM

Display Change Create

Enhancement Spot MDG_ID_MAPPING_API Display

MDG_ID_MAPPING_API Active

Attributes Enhancem. Implementations Technical Details **Enh. Spot Element Definitions**

BAdI Definitions

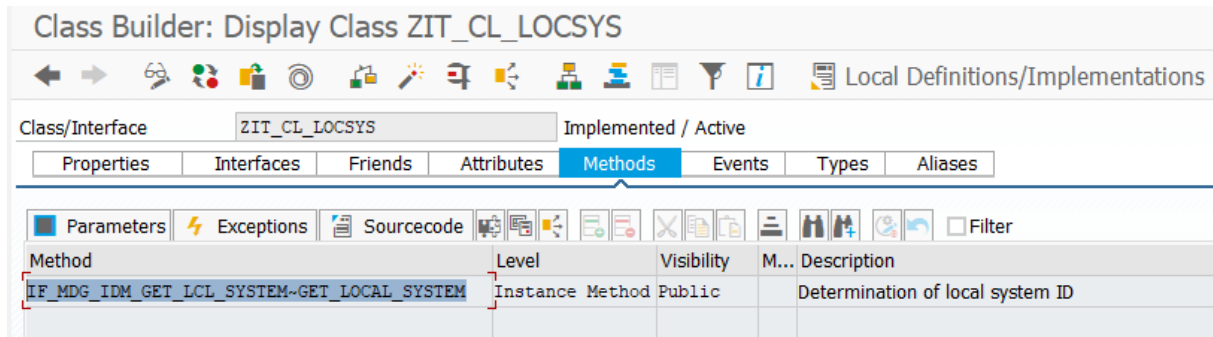
- MDG_IDM_GET_LCL_SYS Determination of local system
 - Interface
 - Implementations**

Implementations

BAdI Definition: MDG_IDM_GET_LCL_SYSTEM

1 implementation found

Active	Enhancement Implementation	BAdI Implementation
	ZIT_LOCLSYS	ZIT_LOCLSYS



```
method IF_MDG_IDM_GET_LCL_SYSTEM~GET_LOCAL_SYSTEM.
*! This method determines the local business system via the ALE logical sys
tem assigned to it.
* If no business system is maintained, it returns an empty value.
```

DATA:

```
lv_own_logical_system TYPE logsys,
ls_bs_tech             TYPE mdg_s_bus_sys_tech,
lv_not_found          TYPE boole_d.
```

CALL FUNCTION 'OWN_LOGICAL_SYSTEM_GET'

IMPORTING

```
own_logical_system = lv_own_logical_system
```

EXCEPTIONS

```
own_logical_system_not_defined = 1
```

```
OTHERS = 2.
```

```
cl_mdg_bs_access_cust_data=>select_bs_data_for_logsys(
```

EXPORTING

```
iv_logsys = lv_own_logical_system
```

IMPORTING

```
es_bs_tech = ls_bs_tech
```

```
ev_not_found = lv_not_found ).
```

```
IF lv_not_found = abap_false.
```

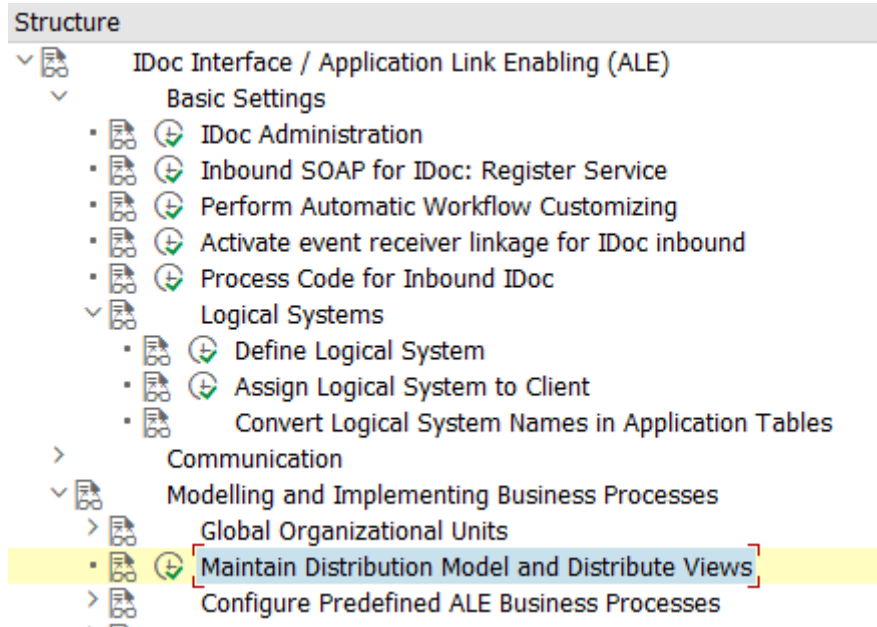
```
ev_local_system = ls_bs_tech-business_system.
```

```
ENDIF.
```

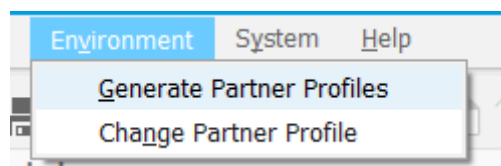
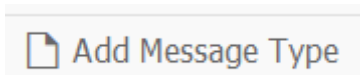
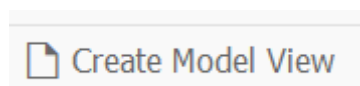
```
endmethod.
```

5.1.4 Define Distribution Model

Use transaction SALE (or BD64):



Create Model View and Add Message Type



Generate Partner Profile



Model View to

Partner System  to

Check Run ☐

Default Parameters for Partner Profile

Postprocessing: Authorized Users

Ty. User

ID RDM Admin

Outbound

Version IDoc record types from Version 4.0 onwards

Pack. Size IDocs

Output Mode

☒ Pass IDoc immediately

☐ Collect and pass IDocs

Inbound

Processing

☒ Trigger immediately

☐ Trigger by background program

Log for Partner Profile Generation

Task	System	Status	Result
Partner	System IH1100	○○■	System IH1100 already exists as partner
	System IR1200	○○■	System IR1200 already exists as partner
Port		○○■	Port A000000001 with RFC destination IR1200 was created
Outbound		○▲○	No unique IDoc type found for message type /ITG/GENERIC . Check !
	System IR1200	○○■	Outbound parameters for message type /ITG/GENERIC /ITG/GENERIC02 created
		○○■	Outbound parameters for message type SYNCH SYNCHRON created

Check in transaction WE20:

Partner	Descri...	Partner No.	IR1200	IR1 Client 200 - S/4 ERP
- Partner Profiles - Partner Type AD - Partner Type B - Partner Type BP - Partner Type GP - Partner Type KU - Partner Type LI - Partner Type LS - IH1100 - IH1400 IR1200 - Partner Type US	Bank Benefits pr Business P Customer Vendor Logical syst IH1 Client 1 IH1 Client 4 IR1 Client 2 User (first	Partn.Type	LS	Logical system
Post Processing: Valid Processors Classification < >				
Ty. US User Agent RDM_ADM_01 RDM Admin Lang. EN English				
Outbound				
Partner R...	Message type	Message v...	Function	Test
	/ITG/GENERIC			☐ A000000001 @ 100 /ITG/GENERIC02
	SYNCH			☐ A000000001 @ 100 SYNCHRON

BD64: Distribute Model View to receiver (IR1200)

The screenshot shows the SAP Distribution Model application window. The 'Edit' menu is open, and the 'Model View' option is selected, which has opened a sub-menu. In the sub-menu, the 'Distribute' option is highlighted. The left sidebar shows the 'Distribution Model' tree with 'Model Views' expanded, and 'RDM Replication' is selected. The main area displays a list of model views, including 'MM-PUR1', 'MM-PUR2', 'QM-CONTR', 'HRFICOUPLI', 'INTERNET', 'LOGISTICS', 'MASTERDATA', 'RDM_REP', and 'IH1100'.

Model View	Description/Technical Name
MM-PUR1	
MM-PUR2	
QM-CONTR	
HRFICOUPLI	
INTERNET	
LOGISTICS	
MASTERDATA	
RDM_REP	
IH1100	

Log of Model View Distribution		
    		
Distribution of Model View RDM_REP		
Step	Status	Details
Target system IR1200		Model view RDM_REP was created

Log On to system IR1200 and execute transaction SALE:

Check Logical Systems

Display IMG




Existing BC Sets
BC Sets for Activity

Structure

- ▼ IDoc Interface / Application Link Enabling (ALE)
 - ▼ Basic Settings
 - IDoc Administration
 - Inbound SOAP for IDoc: Register Service
 - Perform Automatic Workflow Customizing
 - Activate event receiver linkage for IDoc inbound
 - Process Code for Inbound IDoc
 - ▼ Logical Systems
 - Define Logical System
 - Assign Logical System to Client

Change View "Logical Systems": Overview

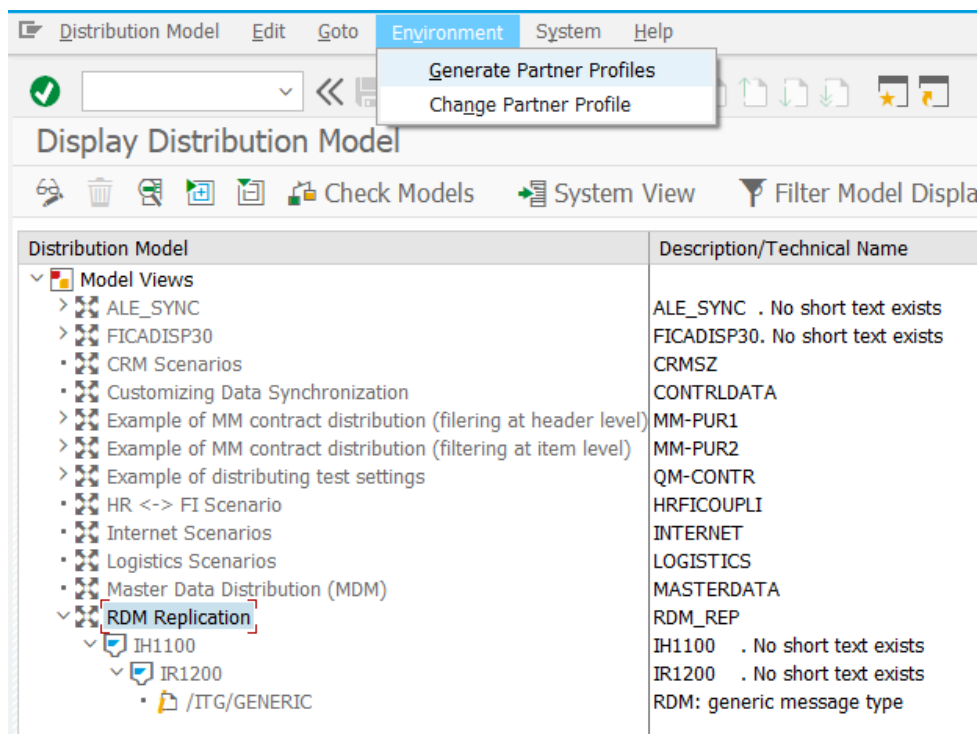
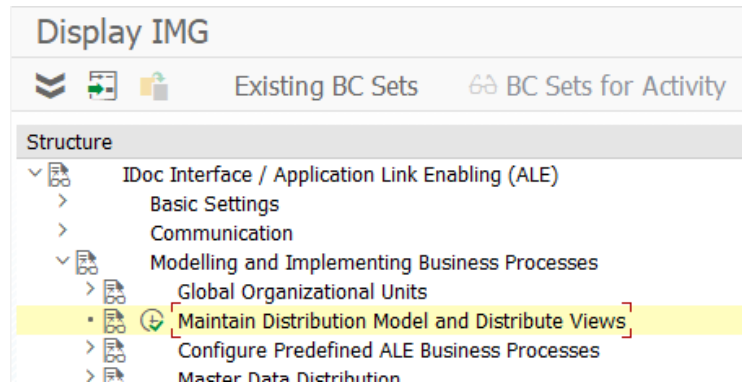

New Entries







Logical Systems	
Log.System	Name
IH1100	IH1 Client 100 - MDG
IR1200	IR1 Client 200 - S/4 ERP



Generate Partner Profile

Model View to

Partner System to

Check Run ☐

Default Parameters for Partner Profile

Postprocessing: Authorized Users

Ty.	US	User
ID	RDM_ADM_01	RDM_ADM_01

Outbound

Version	3	IDoc record types from Version 4.0 onwards
Pack. Size	100	IDocs

Output Mode

☒ Pass IDoc immediately

☐ Collect and pass IDocs

Inbound

Processing

☒ Trigger immediately

☐ Trigger by background program

Check in WE20

Partner profiles

Partner No. IH1 Client 100 - MDG

Partn.Type Logical system

Post Processing: Valid Processors Classification

Ty.	US	User
Agent	RDM_ADM_01	RDM_ADM_01
Lang.	EN	English

Outbound

Partner R...	Message type	Message v...	Function	Test	Receiver ...	L... Pa...	Basic type
				☐			
				☐			
				☐			
				☐			
				☐			
				☐			
				☐			
				☐			
				☐			
				☐			

Inbound

Partner R...	Message Type	Message v...	Function	Test	P.. Process code
	ITG/Generic			☐	@ /ITG/Generic_IN_BUNDLE

Partner Profiles: Inbound Parameters

Partner No. IH1 Client 100 - MDG

Partn.Type

Partner Role

Message Type

Message code

Message function ☐ Test

Inbound options | Post Processing: Valid Processors | Telephony

Process code

☒ Cancel Processing After Syntax Error

Processing by Function Module

☐ Trigger by background program

☒ Trigger Immediately Options

System IH1 100: Check DRFIMG:

Display IMG

Existing BC Sets | BC Sets for Activity

Structure

- Data Replication
 - Overall Information
 - Define Custom Settings for Data Replication
 - Define Technical Settings
 - Define Technical Settings for Business Systems**
 - BAdI: Determination of Local System Name
 - Define Replication Models

Change View "Define Business Systems": Overview

Business System	Logical System	RFC Destination	Logical File Path	Download to PS	Unicode	Unicode Code Page	Disabled for Replication
ER9CLNT003	ER9CLNT003			☐	☐	0	☐
ER9CLNT500	ER9CLNT500			☐	☐	0	☐
IH1100	IH1100			☐	☐	0	☐
IH1400	IH1400	IH1400		☐	☐	0	☐
IR1200	IR1200	IR1200		☒	☐	0	☐

Nothing else to be configured:

Dialog Structure

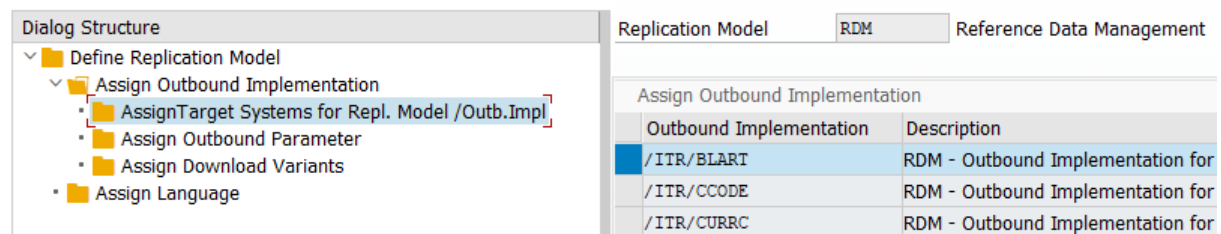
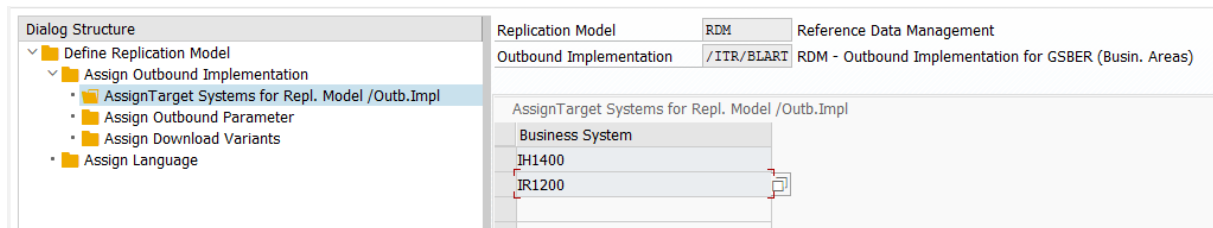
- Define Business Systems
 - Define Bus. Systems, BOs
 - Define Bus. Systems, BOs, Communication Channel

Business System

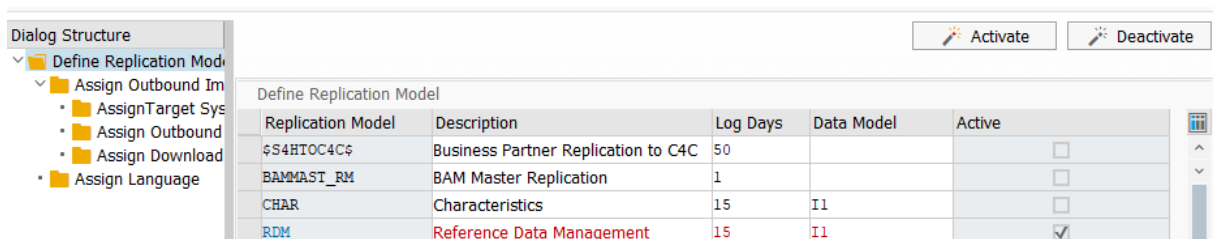
Define Bus. Systems, BOs

BO Type	Description

For every object in scope for this receiver system define target system and outbound implementation:



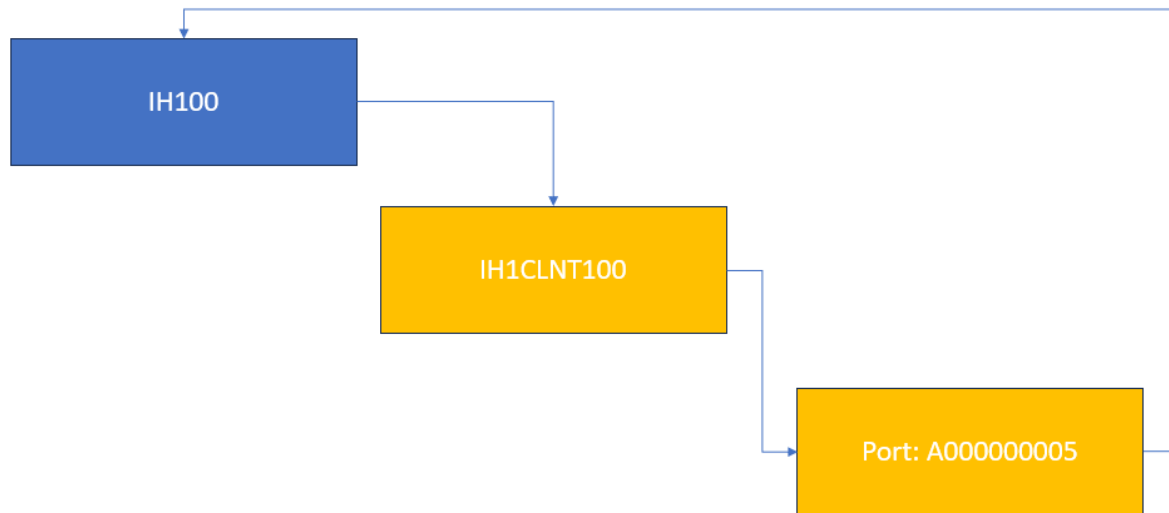
Data Replication Model needs to be active:



5.1.5 Business Governance: Data Replication to MDG client

This section shows a possible data replication configuration for the data replication from the MDG for RDM data persistence (based on the "Flex Mode") to the ERP tables within the same client. This is necessary to avoid inconsistencies for all object types that are in the scope for the Business Governance scenario. It is important to understand that (like in MDG for Financials) the data persistence is decoupled from the corresponding ERP tables. Without this replication scenario below the data between the ERP layer and the MDG layer will start to differ after the data has been loaded (from the ERP tables) and is changed for the first time in MDG for RDM.

Create a new logical system as receiver: IH1CLNT100 and send back to IH1100.



SALE – Create logical system.

IH1400	IH1 Client 400 - S/4 ERP
IH1CLNT000	IH1 Client 000 - S/4 MDG
IH1CLNT100	IH1 Client 100 - S/4 ERP
IR1200	IR1 Client 200 - S/4 ERP
IR2200	IR2 Client 200 - S/4 ERP

SM59: Create RFC Destination

RFC Destination IH1CLNT100

Remote Logon
Connection Test
Unicode Test
Fast Serialization Test

RFC Destination:

Connection Type: ABAP Connection Description

Description

Description 1	IH1CLNT100 (SELF)
Description 2	
Description 3	

Administration
Technical Settings
Logon & Security
Unicode
Special Options

Target System Settings

Load Balancing Status

Load Balancing: ☐ Yes ☒ No

Target Host: Instance No.:

Save to Database as:

RFC Destination IH1CLNT100

Remote Logon Connection Test Unicode Test Fast Serialization Test 

RFC Destination

Connection Type ABAP Connection Description

Description

Description 1

Description 2

Description 3

Administration Technical Settings **Logon & Security** Unicode Special Options

SAPGUI Logon Screen ☐ Display ☐ Hide in Case of Logon Error

Logon Procedure

Language

Client

User ☐ Current User

PW Status

Trust Relationship ☒ No ☐ Yes

Status of Secure Protocol

 ☒ Inactive ☐ Active

Note: A specific technical user needs to be defined and used. The screenshot only shows an example.

Connection Test

Action	Result
Logon	2 msec
Transfer of 0 KB	0 msec
Transfer of 10 KB	0 msec
Transfer of 20 KB	0 msec
Transfer of 30 KB	0 msec

Add to Distribution Model

>  FICADISP30	FICAD
>  IH1100_OUT	IH1100
> ☒ IH1 Client 100 - S/4 MDG	IH1100
> ☒ IH1 Client 400 - S/4 ERP	IH1400
> ☒ IH1 Client 100 - S/4 ERP	IH1CLNT100
>  /ITG/GENERIC	RDM:
> ☒ IR1 Client 200 - S/4 ERP	IR1200
> ☒ IR1 Client 100 - S/4 ERP	IR1000

Generate Partner Profiles

IH1CLNT100 / just Outbound:

Page 101/115

Message Type: RDM: generic message type
 Message code:
 Message function: ☐ Test

Outbound Options | Message Control | Post Processing: Valid Processors

Receiver port: Transactional RFC: IH1CLNT100 (SELF)
 Pack. Size:
☐ Queue Processing

Output Mode
☒ Pass IDoc Immediately Output Mode 2
☐ Collect IDocs

IDoc Type
 Basic type:
 Extension:

DRFIMG:

- Structure
- ▼ Data Replication
 - Overall Information
 - Maintain Data Replication Framework Filter Criteria
 - ▼ Define Custom Settings for Data Replication
 - ▼ Define Technical Settings
 - **Define Technical Settings for Business Systems**
 - BAdI: Determination of Local System Name

Change View "Define Business Systems": Overview

New Entries

Dialog Structure			
Define Business Systems			
	Business System	Logical System	RFC Destination
▼ Define Business System			
▼ Define Bus. Systems			
• Define Bus. System			
• Define Data Cont.			
	ER9CLNT003	ER9CLNT003	
	ER9CLNT500	ER9CLNT500	
	IH1100	IH1100	
	IH1400	IH1400	IH1400
	IH1CLNT100	IH1CLNT100	IH1CLNT100
	IR1200	IR1200	IR1200

Change View "Define Replication Model": Overview

New Entries BC Set: Change Field Values

Dialog Structure

- Define Replication Model
 - Assign Outbound Im
 - AssignTarget Sys
 - Assign Outbound
 - Assign Download
 - Assign Language

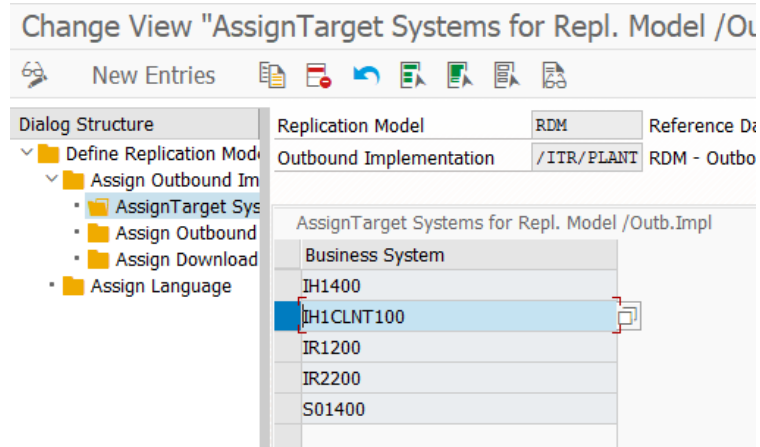
Replication Model	Description	Log Days	Data Model	Acti
\$S4HTOC4C\$	Business Partner Replication to C4C	50		
0001_ME_SF	Shop Floor Routing Replication to ME	10		
BAMMAST_RM	BAM Master Replication	1		
CHAR	Characteristics	15	I1	
RDM	Reference Data Management	15	I1	
SAP PMR	SAP Promotion Management	7		

The next step needs to be done for each object type in scope for Business Governance ("Direct Update"). The below list is just an example.

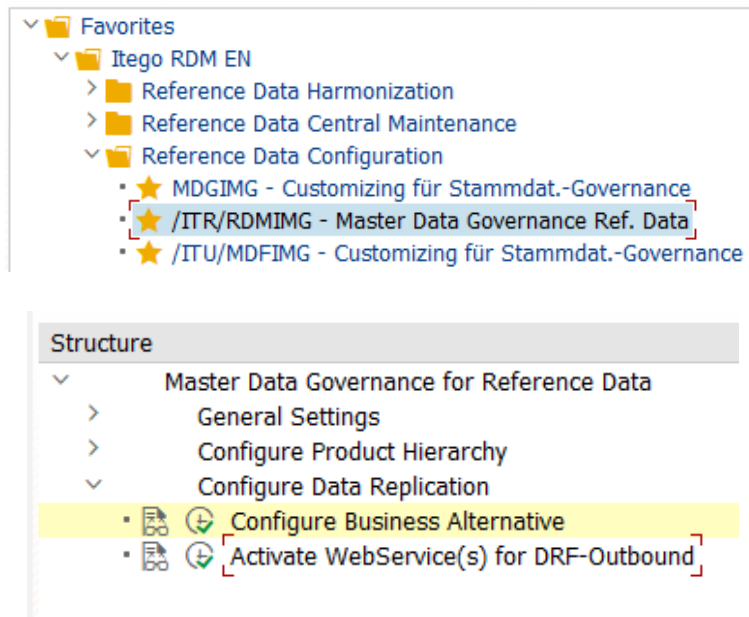
Dialog Structure

- Define Replication Model
 - Assign Outbound Im
 - AssignTarget Sys
 - Assign Outbound
 - Assign Download
 - Assign Language

Replication Model	RDM	Reference Data Management
Assign Outbound Implementation		
Outbound Implementation	Description	Sequence
/ITR/KTOPL	RDM - Outbound Implementation for...	Rep1
/ITR/LABOR	RDM - Outbound Implementation for...	Rep1
/ITR/LAND1	RDM - Outbound Implementation for...	Rep1
/ITR/LANGU	RDM - Outbound Implementation for...	Rep1
/ITR/LGORT	RDM - Outbound Implementation for...	Rep1
/ITR/MATKL	RDM - Outbound Implementation for...	Rep1
/ITR/MMSTA	RDM - Outbound Implementation for...	Rep1
/ITR/MRPAR	RDM - Outbound Implementation for...	Rep1
/ITR/MSSIE	RDM - Outbound Implementation for...	Rep1
/ITR/MTART	RDM - Outbound Implementation for...	Rep1
/ITR/PAYMD	RDM - Outbound Implementation for...	Rep1
/ITR/PAYMN	RDM - Outbound Implementation for...	Rep1
/ITR/PERSA	RDM - Outbound Implementation for...	Rep1
/ITR/PLANT	RDM - Outbound Implementation for...	Rep1
/ITR/PLSCO	RDM - Outbound Implementation for...	Rep1



Last step: Activate the Business Governance for all object types in scope for Business Governance ("Direct Update"). The below list is again just an example.



RDM: Activate Direct Table Update				
Business System	Logical sy...	Entity Type	A	
IH1CLNT100	IH1CLNT100	BLART	☒	
IH1CLNT100	IH1CLNT100	COMPCODE	☒	
IH1CLNT100	IH1CLNT100	CURRENCY	☒	
IH1CLNT100	IH1CLNT100	CUR_EXRA	☒	
IH1CLNT100	IH1CLNT100	DAYLIMIT	☒	
IH1CLNT100	IH1CLNT100	DISMM_ET1	☒	
IH1CLNT100	IH1CLNT100	DISPO_ET1	☒	
IH1CLNT100	IH1CLNT100	DISPR	☒	
IH1CLNT100	IH1CLNT100	EKGRP	☒	
IH1CLNT100	IH1CLNT100	EKORG	☒	

5.2 Data Replication based on Webservices

This section shows how to set up a Webservice based communication using the following systems:

- RDM for MDG (sender): System IH1, client 100
- SAP Business System (receiver): System IR1, client 200

Please adjust the examples below to your own system landscape.

5.2.1 Receiver: Technical Administration: Profiles and Provider Systems

System IR1 200: transaction SOAMANAGER:

Technical Administration

Profiles

Define common security settings for business scenario configuration

68   	Local	MYPROFILE_XXX	2	MYPROFILE
--	-------	---------------	---	-----------

Detail

Profile Name: MYPROFILE_XXX

Profile Type: Local

Profile Version: 2

Security Settings Transport Settings Administration Information

Transport Guarantee

Transport Level Security

☒ None (http)

☐ SSL (https)

Or https based on your security requirements.

Provider Systems

Define provider systems for usage in business scenario configuration

Provider Systems

[Create](#)
[Create Special](#)
[Import](#)

Actions	Type	Provider System Name	Description	Creation Type	State
68   	Local	PROVIDER_SYSTEM_B_XXX	Provider System for System B	Provider System	Active

General WSDL Access IBC References Business Applications Administrative Information

Provider System

Name:* PROVIDER_SYSTEM_B...

Description: Provider System for System B

Profile Name:* MYPROFILE_XXX

Profile Version: 1 [Update Version](#)

General WSDL Access IBC References Business Applications Administrative Information

Services Registry

☐ Use Services Registry

Services Registry: <Primary Service Registry> 

SLD Identifier: PROVIDER_SYSTEM_B_XXX

Logical System

Logical system:

WSIL Service

☒ Use WSIL

Access Url for WSIL:

General WSDL Access IBC References Business Applications Administrative Information

IBC ID	Type	Name	System
3D38EACD59B11EED87AABECE382FD6F2	CLIENT	IR1/200	IR1/200

General WSDL Access IBC References Business Applications Administrative Information

Name	Description	Business Application ID
sap.com/BusinessApplicationABAP		3D38EACD59B11EED87AABECE382FD6F2

5.2.2 Receiver: Service Administration: Business Context

System IR1 200: transaction SOAMANAGER:

Service Administration

Identifiable Business Context

Display and maintain Identifiable Business Contexts (IBCs)

Actions	Name	Type	Description	Valid fro...	Valid f...	Valid to ...	Valid to ...	Application Component
 	IR1/200	CLIENT	Automatically generated for Business Application ID3D38...	08.06.2012	15:09:38	31.12.9999	23:59:59	BC-ESI-WS-ABA-CFG

Identifiable Business Context Reference

Display and maintain Identifiable Business Contexts references (IBC reference)

Actions	Name	Type	Type Description	System	Description	Application ...	Is Assign...
 	IR1/200	CLIENT	Client	IR1/200	Automatically generated for...	BC-ESI-WS-AB...	☒

5.2.3 Receiver: Service Administration: Local Integration Scenario

System IR1 200: transaction SOAMANAGER:

[Service Administration](#)

Local Integration Scenario Configuration

Configure multiple service definitions and service groups supporting change management

  	Local	MYSCENARIO_B_XXX	Scenario B	Active

Detail

Scenario Name: MYSCENARIO_B_XXX

Scenario Type: Local

[Service Definitions](#) [Service Groups](#) [Administrative Information](#)

Internal Name	External Name	External Namespace	Description	Assigned Profiles	Is Configured
/ITR/RDM_WS_SEND_OBJECT	/ITR/RDM_WS_SEND_OBJECT	urn:sap-com:document:sap:soap...	No short text found	MYPROFILE_XXX	☒

5.2.4 Receiver: Services Registry: Published Systems and Objects

System IR1 200: transaction SOAMANAGER:

[Services Registry](#)

Publishing Systems

Display and maintain Publishing Systems in Services Registry

☐ Actions	Name	Name and Client	Logical Key	Host Name	Publishing System Type	Application	Publ.	Orig.
☐   	IR1	IR1(200)	200.SystemName.IR1.SystemNumber.0090257000.SystemHome.ir1r3#ABAP	ir1r3	ABAP	☒	☒	☒

Published Service Definitions

Display and maintain published Service Definitions in Services Registry

☐ Actions	Internal Name	External Namespace	External Name	State	Description	Publishing System
☐   	/ITR/RDM_WS_SEND_OBJECT	urn:sap-com:document:sap:soap:functions:mc-style	/ITR/RDM_WS_SEND_OBJECT	Configured	No short text found	IR1(200) on ir1r3

Published Bindings

Display and maintain published Bindings in Services Registry

☐ Actions	Binding Name	Service Namespace	Internal Service Name	External Service Name	Publishing Sys
☐   	BINDING__-ITR_-RDM_WS_SEND_OBJECT_MYPROFILE_XXX_L	urn:sap-com:document:sap:soap:functions:mc-style	/ITR/RDM_WS_SEND_OBJECT	/ITR/RDM_WS_SEND_OBJECT	IR1(200) on ir1r3
☐   	BINDING__-ITR_-RDM_WS_SEND_OBJECT_MYPROFILE_XXX_L	urn:sap-com:document:sap:soap:functions:mc-style	/ITR/RDM_WS_SEND_OBJECT	/ITR/RDM_WS_SEND_OBJECT	IR1(200) on ir1r3
☐   	Z_IR1200_WS_SEND_OBJECT	urn:sap-com:document:sap:soap:functions:mc-style	/ITR/RDM_WS_SEND_OBJECT	/ITR/RDM_WS_SEND_OBJECT	IR1(200) on ir1r3

Details of Service Definition: /ITR/RDM_WS_SEND_OBJECT

Overview Configurations Classifications Details

Define Services and Bindings

☐ Service/Binding	Actions	State	Description
☐ ☒ B330F036C1921EDD87C2B0AEB7C14D2B	  	Active	
☐ BINDING__-ITR_-RDM_WS_SEND_OBJECT_MYPROFILE_XXX_L	  		
☐ ☒ B330F036C1921EED87C87B02F24F87E6	  	Active	
☐ BINDING__-ITR_-RDM_WS_SEND_OBJECT_MYPROFILE_XXX_L	  		
☐ ☒ Z_IR1200_WS_SEND_OBJECT	  	Active	Z_IR1200_WS_SEND_OBJECT
☐ <u>Z_IR1200_WS_SEND_OBJECT</u>	  		

Export WSDL to set up sender system in a later step.

Published IBCs

Display and maintain published Identifiable Business Contexts (IBCs) in Services Registry

☐	Actions	Receiver Name	Receiver Type	Description	Publishing System
☐	  	IR1/200	CLIENT	Automatically generated for Business Application ID3D38EACD59B11EED87AABECE382FD6F2	IR1(200) on ir1r3

5.2.5 Sender: Technical Administration: Profiles and Provider Systems

System IH1 100: transaction SOAMANAGER:

Technical Administration

Profiles

Define common security settings for business scenario configuration

Profiles

Create Profile Import

Actions	Type	Name	Version	Description	State
  	Local	DEFAULT_PROFILE	1	Lokales Standardprofil	Active
  	Local	MYPROFILE_XXX	1	MYPROFILE	Active

Detail

Profile Name: MYPROFILE_XXX

Profile Type: Local

Profile Version: 1

Security Settings Transport Settings Administration Information

Transport Guarantee

Transport Level Security

☒ None (http)

☐ SSL (https)

Or https based on your security requirements.

Provider Systems

Define provider systems for usage in business scenario configuration

Provider Systems					
Create Create Special Import					
Actions	Type	Provider System Name	Description	Creation Type	State
  	Local	PROVIDER_SYSTEM_A_XXX	Provider System for System A	Provider System	Active

Edit Save Deactivate Cancel

General WSDL Access IBC References Business Applications Administrative Information

Provider System

Name*: PROVIDER_SYSTEM_A...

Description: Provider System for System A

Profile Name*: MYPROFILE_XXX

Profile Version: 1 [Update Version](#)

Edit Save Deactivate Cancel

General WSDL Access IBC References Business Applications Administrative Information

Services Registry

☐ Use Services Registry

Services Registry: <Primary Service Registry> v

SLD Identifier: PROVIDER_SYSTEM_A_XXX

Logical System

Logical system:

WSIL Service

☒ Use WSIL

Access Url for WSIL: <http://ir1r3.itego.de:53801/sap/bc/srt/wsil?sap-client=200>

Format of WSIL URL of ABAP backend: http://<hostname>:<port>/sap/bc/srt/wsil?sap-client=<client>

Edit Save Deactivate Cancel

General WSDL Access IBC References Business Applications Administrative Information

IBC ID	Type	Name	System
3D38EACD59B11EED87AABCE382FD6F2	CLIENT	PROVIDER_SYSTEM_A_XXX	PROVIDER_SYSTEM_A_XXX

Edit Save Deactivate Cancel

General WSDL Access IBC References Business Applications Administrative Information

Name	Description	Business Application ID
sap.com/BusinessApplicationABAP		3D38EACD59B11EED87AABCE382FD6F2

5.2.6 Sender: Service Administration: Business Context

System IH1 100: transaction SOAMANAGER:

Service Administration

Identifiable Business Context

Display and maintain Identifiable Business Contexts (IBCs)

Actions	Name	Type	Description	Valid from...	Valid fr...	Valid to D...	Valid to TI...	Application Component
 	IH1/100	CLIENT		08.06.2012	15:09:38	31.12.9999	23:59:59	BC-ESI-WS-ABA-CFG

Identifiable Business Context Reference

Display and maintain Identifiable Business Contexts references (IBC reference)

Actions	Name	Type	Type Description	System	Description	Application Co...	Is Assigned
 	IH1/100	CLIENT	Client	IH1/100		BC-ESI-WS-ABA...	☐
 	PROVIDER_SYSTEM_A_XXX	CLIENT		PROVIDER_SYSTEM_A_XXX	Automatically generated for Bu...	BC-ESI-WS-ABA...	☒

5.2.7 Sender: Service Administration: Local Integration Scenario

System IH1 100: transaction SOAMANAGER:

Service Administration

Local Integration Scenario Configuration

Configure multiple service definitions and service groups supporting change management

  	Local	MYSCENARIO_A_XXX	Consumer Scenario	Active
Detail				
Scenario Name: MYSCENARIO_A_XXX				
Scenario Type: Local				
Service Definitions <u>Service Groups</u> Administrative Information				
Internal Name	Description	Provider IBC Reference	Communication Protocol	Is Configured
/ITR/RDM_WS_SEND		CLIENT / PROVIDER_SYST...	Use WS Protocol	☒

5.2.8 Sender: Service Administration: Logon Data

System IH1 100: transaction SOAMANAGER:

Service Administration

Logon Data Management

Define logon data used by business scenario configuration

Maintenance Assignments

Logon Data

Create

Actions	Type	Logon Data Name	Description
 	Local	MYUSER_XXX	Logon User

Logon Data Detail for 'MYUSER_XXX'

Credentials Administrative Information

Authentication Met... *

Provide User and Password

Maintenance Assignments

Logon Data Assignments

Create

Actions	Type	Consumer Type	Consumer Object	Provider IBC Reference	Provider Interface Name	Provider Interface Namespace	Logon Data Name
 	Local	Service Group	/ITR/RDM_WS_SEND	CLIENT / PROVIDER_SYSTEM...	*	*	MYUSER_XXX

Assignment to Service Group

5.2.9 Sender: Service Administration: Web Service

System IH1 100: transaction SOAMANAGER:

Service Administration

Web Service Configuration

Configure service definitions, consumer proxies and service groups

Design Time Object Search Configuration Search

▼ Search criteria

Object Type is All  

Object Name contains /ITR/RDM*  

Maximum Number of Results: 100 Saved Search:  

Search Result

Internal Name	Type	Name	Namespace	Desc...
 /ITR/RDM_WS_GET_OBJECT	Service Definition	/ITR/RDM_WS_GET_OBJECT	urn:sap-com:document:sap:soap:functions:mc-style	
 /ITR/RDM_WS_GET_PLANT	Service Definition	/ITR/RDM_WS_GET_PLANT	urn:sap-com:document:sap:soap:functions:mc-style	
 /ITR/RDM_WS_SEND_OBJECT	Service Definition	/ITR/RDM_WS_SEND_OBJECT	urn:sap-com:document:sap:soap:functions:mc-style	
 /ITR/RDM_WS_SEND	Service Group	/ITR/RDM_WS_SEND	urn.sap.com.service.group	

☐	Internal Name	Actions	Binding/Log. Port	Type	State	Creation Type
☐	 /ITR/CO_WS_CONS__ITR_RDM_WS_S	  	6045BD8B74AC1EED87C8A5555CAAC320	Logical Port	Active	Created based on profile MYPROFILE_XXX/1/Local
☐		  	Z_PORT_TO_IR1200	Logical Port	Active	Manually created
☐	 /ITR/RDM_WS_GET_OBJECT	  	Z_RDM_GET_OBJECT	Binding	Active	Manually created
☐	 /ITR/RDM_WS_GET_PLANT	  	Z_RDM_GET_PLANT	Binding	Active	Manually created
☐	 /ITR/RDM_WS_SEND_OBJECT	  	Z_RDM_SEND_OBJECT	Binding	Active	Manually created

Logical port created based on exported WSDL from receiver system.

Details of Consumer Proxy: /ITR/CO_WS_CONS__ITR_RDM_WS_S

Overview **Configurations** Details

Define Logical Ports

☐	Actions	Logical Port	State	Logical Port is Default	Description	Creation Type
☐	  	6045BD8B74AC1EED87C8A5555CAAC320	Active		Provider System: PROVIDER_SYSTEM_A_XXX	Created based on pro
☐	  	<u>Z_PORT_TO_IR1200</u>	Active		Z_PORT_TO_IR1200	Manually created

5.2.10 Sender: Services Registry: Published Systems and Objects

System IH1 100: transaction SOAMANAGER:

Services Registry

Publishing Systems

Display and maintain Publishing Systems in Services Registry

☐	Actions	Name	Name and Client	Logical Key	Host Name	Publishing System Type	Application	Publ.	Orig.
☐	 	IH1	IH1(100)	100.SystemName.IH1.SystemNumber.0090257000.SystemHome.Ih1r3#ABAP	ih1r3	ABAP	☒	☒	☒

Published Service Definitions

Display and maintain published Service Definitions in Services Registry

☐ Actions	Internal Name	External Namespace	External Name	State	Description	Publishing System
☐  	/ITR/RDM_WS_GET_OBJECT	urn:sap-com:document:sap:soap:functions:mc-style	/ITR/RDM_WS_GET_OBJECT	Configured		IH1(100) on ih1r3
☐  	/ITR/RDM_WS_GET_PLANT	urn:sap-com:document:sap:soap:functions:mc-style	/ITR/RDM_WS_GET_PLANT	Configured		IH1(100) on ih1r3
☐  	/ITR/RDM_WS_SEND_OBJECT	urn:sap-com:document:sap:soap:functions:mc-style	/ITR/RDM_WS_SEND_OBJECT	Configured		IH1(100) on ih1r3

Published Bindings

Display and maintain published Bindings in Services Registry

☐ Actions	Binding Name	Service Namespace	Internal Service Name	External Service Name	Publishing System
☐  	Z_RDM_GET_OBJECT	urn:sap-com:document:sap:soap:functions:mc-style	/ITR/RDM_WS_GET_OBJECT	/ITR/RDM_WS_GET_OBJECT	IH1(100) on ih1r3
☐  	Z_RDM_GET_PLANT	urn:sap-com:document:sap:soap:functions:mc-style	/ITR/RDM_WS_GET_PLANT	/ITR/RDM_WS_GET_PLANT	IH1(100) on ih1r3
☐  	Z_RDM_SEND_OBJECT	urn:sap-com:document:sap:soap:functions:mc-style	/ITR/RDM_WS_SEND_OBJECT	/ITR/RDM_WS_SEND_OBJECT	IH1(100) on ih1r3

Published IBCs

Display and maintain published Identifiable Business Contexts (IBCs) in Services Registry

☐ Actions	Receiver Name	Receiver Type	Description	Publishing System
☐  	IH1/100	CLIENT		IH1(100) on ih1r3