

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 to create 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

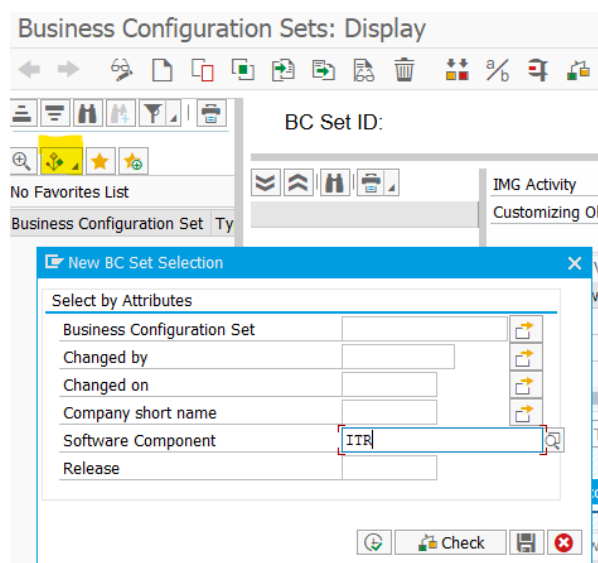
Check whether the data model I1 has been activated in transaction MDGIMG: General Settings -> Data Modeling -> Edit Data Model. If it has not been activated, select Data Model "I1" and click on  "Activate".

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 to clarify any remaining question by contacting support@itego.de (subject: "BC Set Usage")

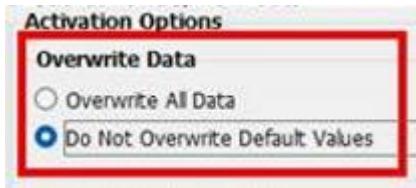
You can use transaction SCPR3 "Display and maintain BC Sets" to investigate the content of the BC Sets. Please use "Select by Attributes":



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 RDM 2407 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.

Important Note for Upgrades: For the upgrade to RDM 2407 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.



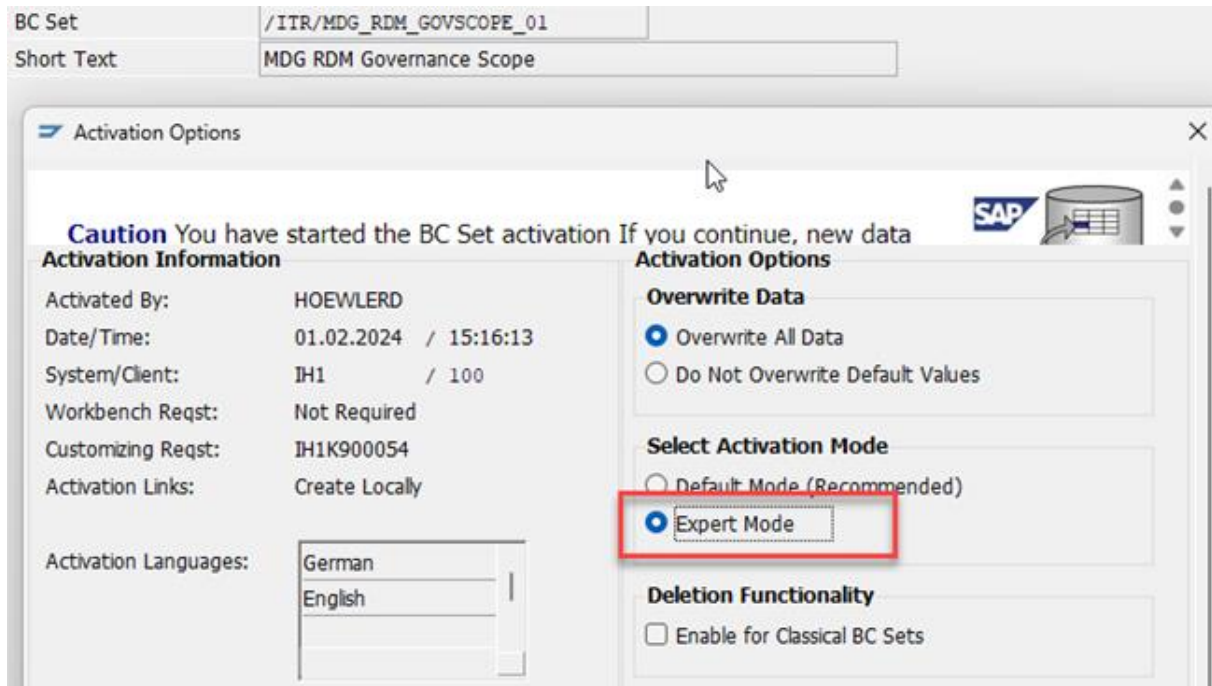
3.3.1 SAP MDG: BC Sets

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: These BC Sets deliver 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 these BC Sets.

For Data Transfer please activate these BC Sets:

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

In order to get some predefined File Upload Variants please also consider to activate 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

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 3.9 Set Up Data Replication for additional information.

3.3.2 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 activate also the BC Sets mentioned for Software Component ITO on the MDG system clients that you actually use as "(Test) Business System".

3.3.2.1 Software Component ITO

The following BC Set has to 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 have to 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

3.4 Configure User Roles and Authorizations

3.4.1 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 3.8 "Configure Rule Based Workflow". It is recommended to copy the roles to your own namespace and replace the roles in the Workflow definitions.

3.4.2 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

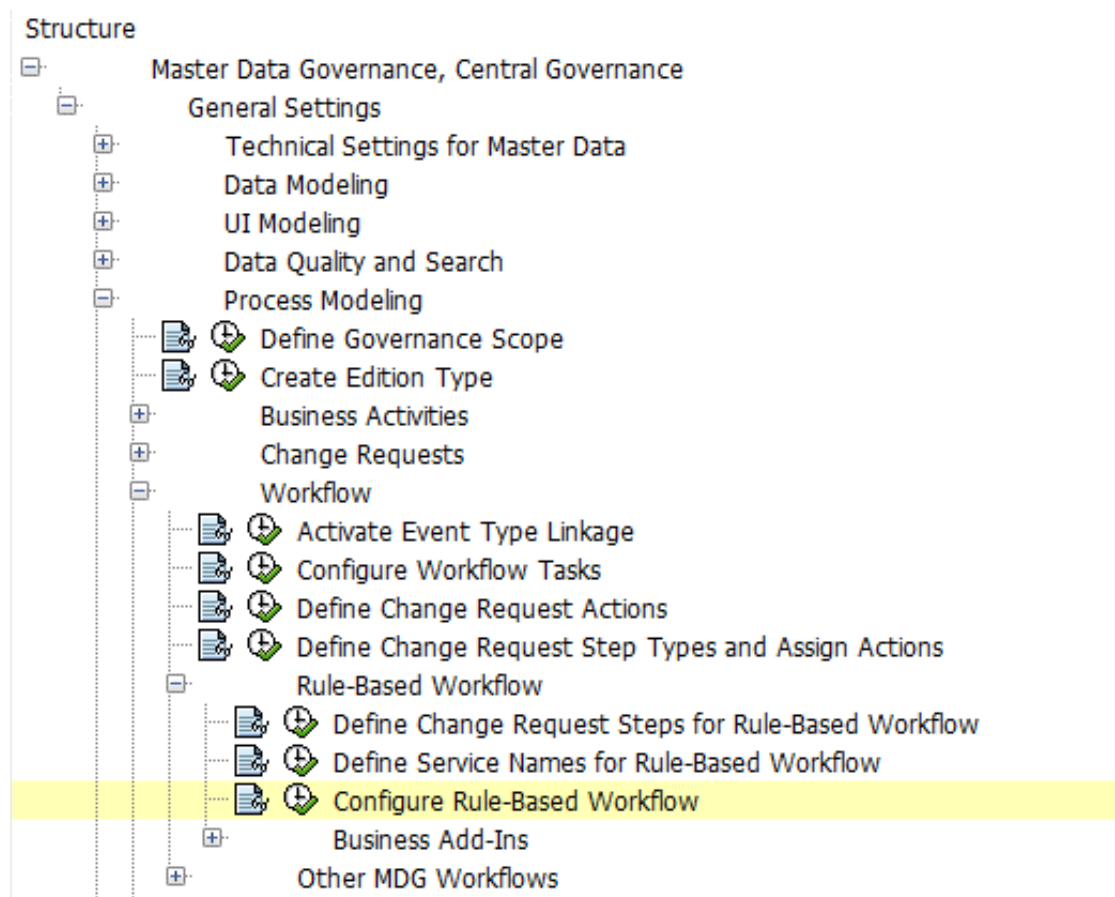
3.5 Copy Rule Based Workflows from Client 000

Rule based workflows delivered by RDM are delivered in client 000. In order 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.

3.5.1 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](#).

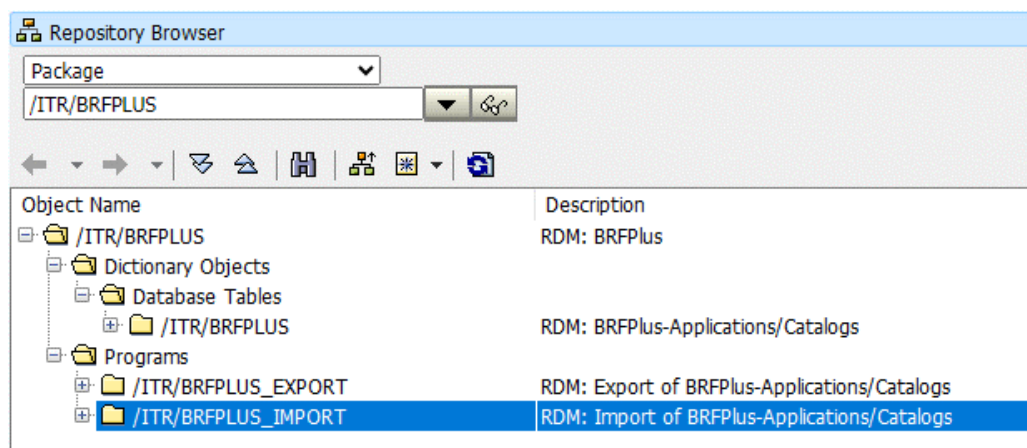
The customizing has to be transferred from client 000 to the operational client where the change requests are processed. SAP standard provides a copy functionality (see also: [How to copy BRF+ rules in your target client](#)) and Itego implemented a convenient way to transfer

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.

3.5.2 Automated Copy

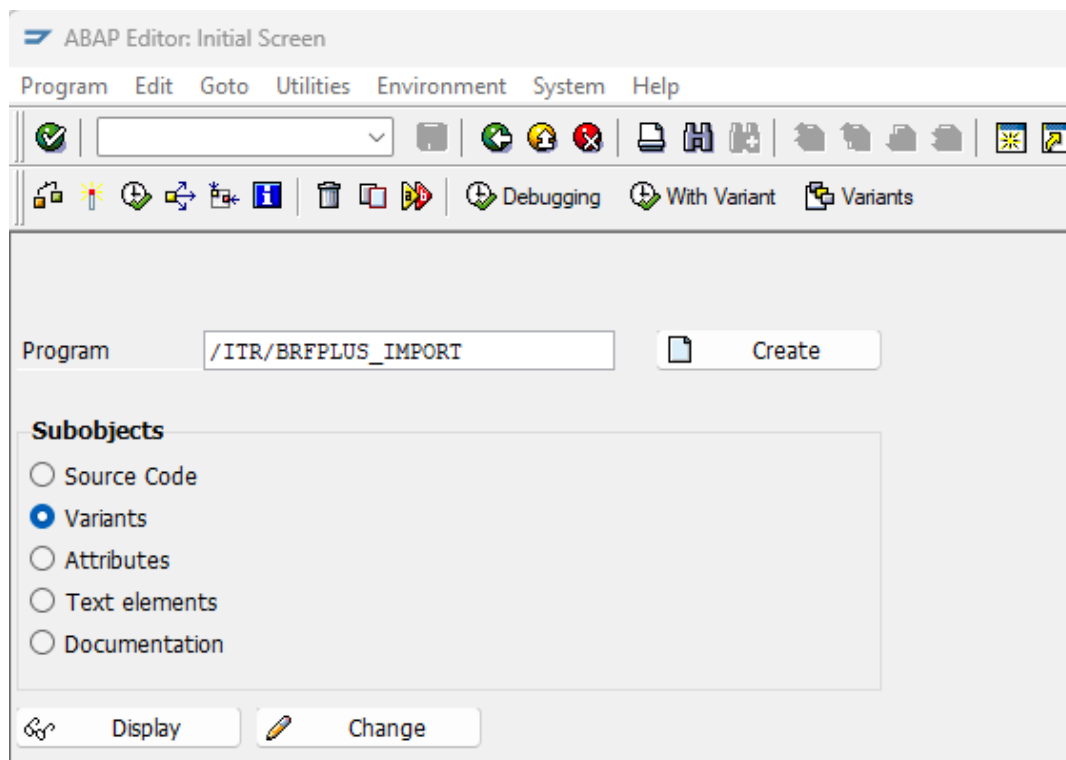
Itego RDM package /ITR/BRFPLUS includes two programs (reports)

- /ITR/BRFPLUS_EXPORT
- /ITR/BRFPLUS_IMPORT

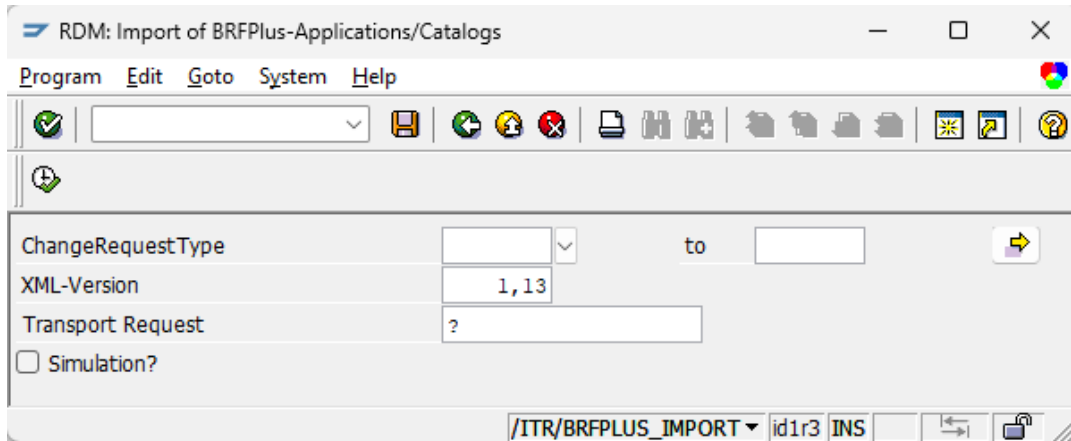


The XML export is already done by Itego and BRF+ data is delivered via table /ITR/BRFPLUS.

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:

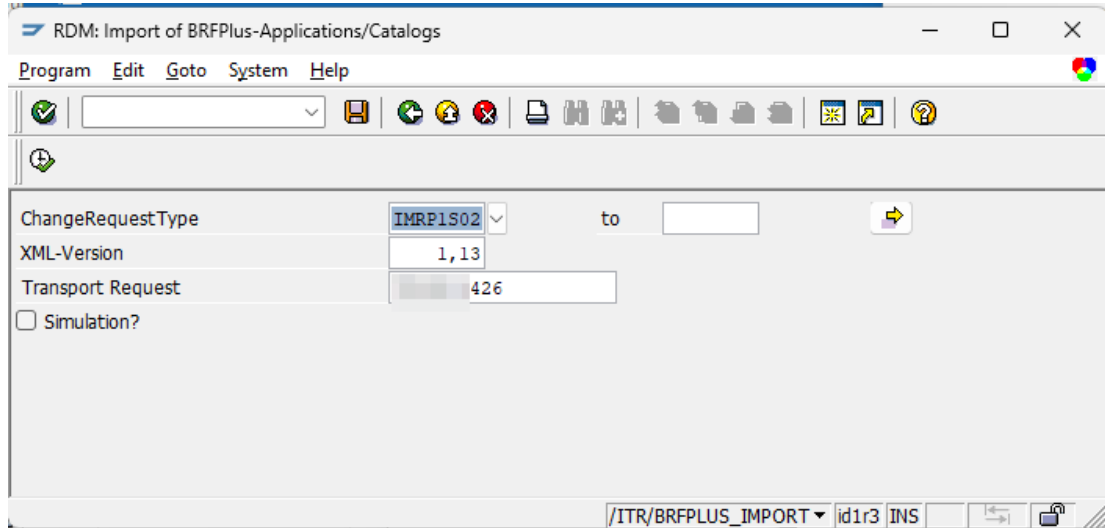


The report offers the following selection criteria:



- **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.

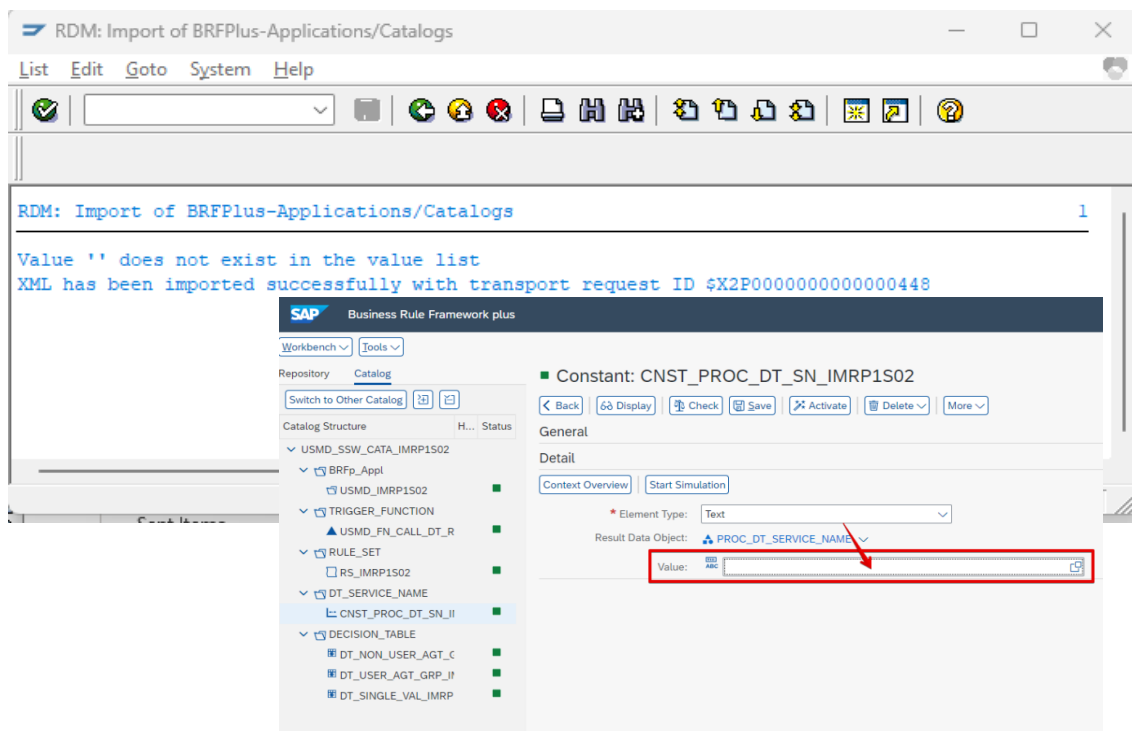
Example: Change request type IMRP1S02




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: -

221 / 224

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.

3.5.3 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.

3.6 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.

3.6.1.1 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.

3.6.1.2 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 in particular 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 to clarify 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 3.9), 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.

3.6.2 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.

3.7 Adjust User Interfaces

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

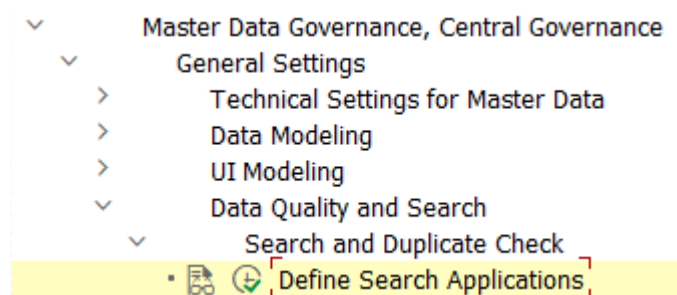
The Master Data Framework (MDF) provides capabilities for the definition of

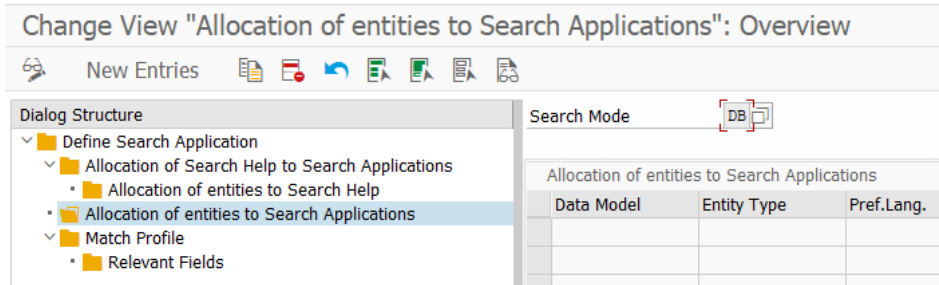
- Field properties
- Search configurations
- Default Values
- Validations and
- Derivations

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: In order 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 a 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.

3.8 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

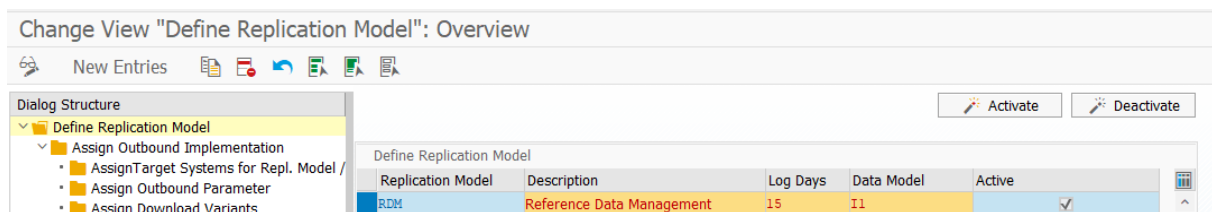
3.9 Set Up Data Replication

In order 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.

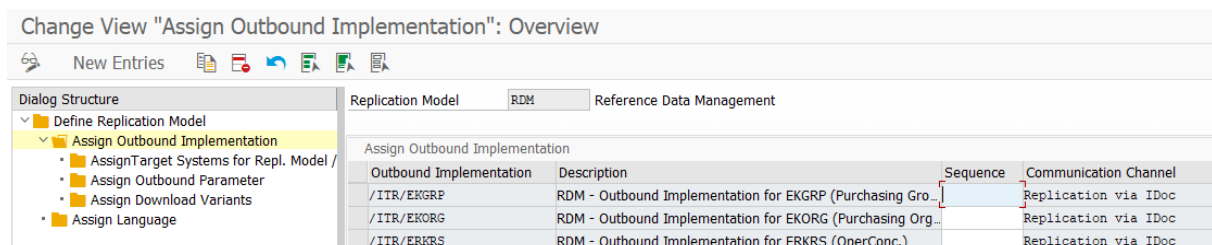
3.9.1 Data Replication Framework settings

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



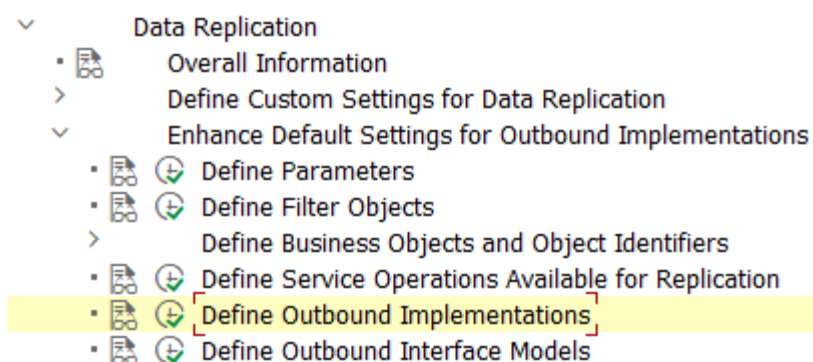
3.9.1.1 Configuration of Outbound Implementations

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



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



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.

3.9.1.2 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	<input checked="" type="checkbox"/>

3.9.1.3 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	<input checked="" type="checkbox"/>

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

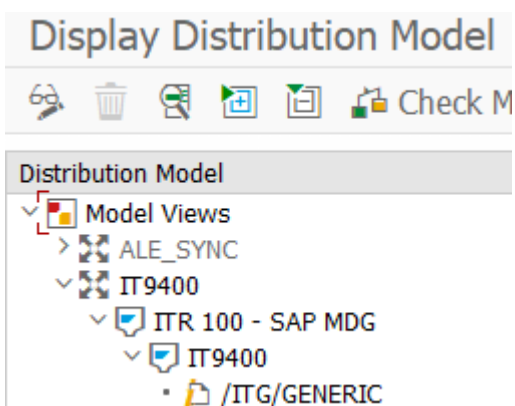
3.9.2 Data Replication using Application Link Enabling (ALE)

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.

3.9.2.1 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 parmters.						
Partner R...	Message Type	Message v...	MessageFu...	Test	P..	Process code
	/ITG/GENERIC			<input type="checkbox"/>		/ITG/GENERIC_IN_BUNDLE

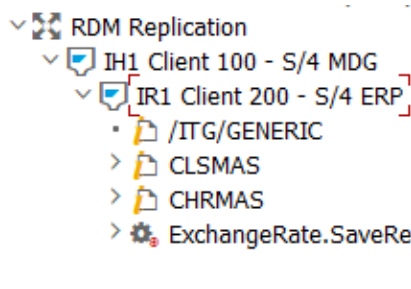
3.9.2.2 ALE Configuration for Object Specific Message Types

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

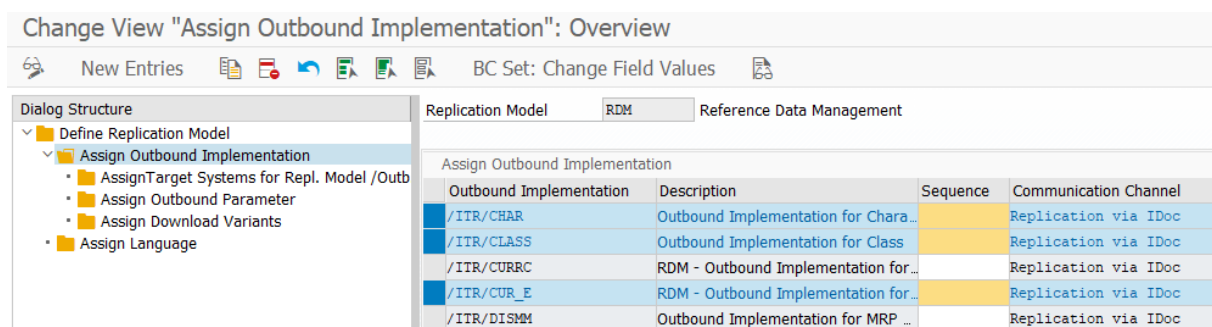
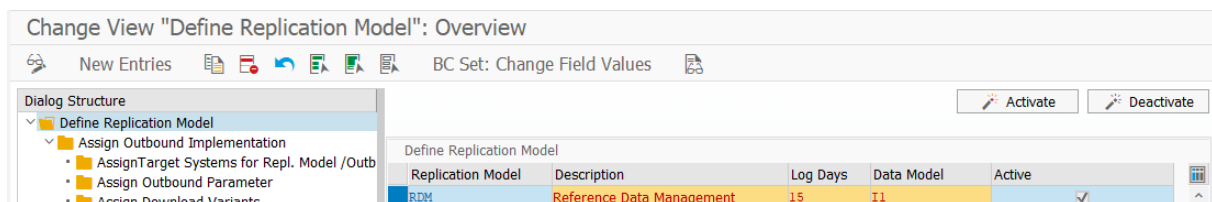
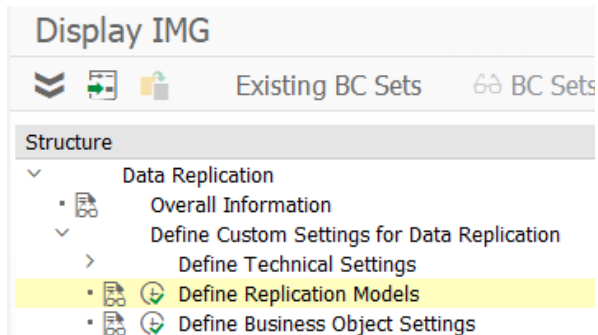
Transaction WE20 (Sender), after generation of partner profiles:

Outbound							
Partner R...	Message type	Message v...	Function	Test	Receiver ...	I... Pa...	Basic type
	CHRMAS			<input type="checkbox"/>	A000000001	100	CHRMAS05
	CLSMAS			<input type="checkbox"/>	A000000001	100	CLSMAS04
	EXCHANGE_RATE			<input type="checkbox"/>	A000000001	100	EXCHANGE_RATE01

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

Inbound						
Partner R...	Message Type	Message v...	Function	Test	P..	Process code
	CHRMAS			<input type="checkbox"/>	CHRM	
	CLSMAS			<input type="checkbox"/>	CLSM	
	EXCHANGE_RATE			<input type="checkbox"/>	BAPP	

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



3.9.3 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:

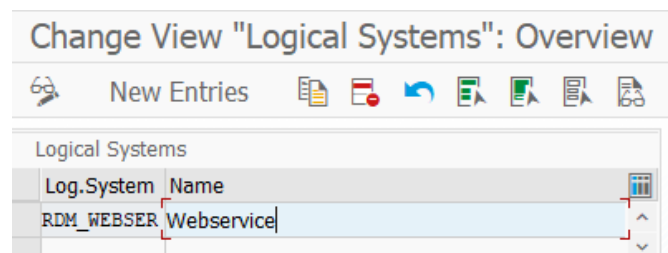
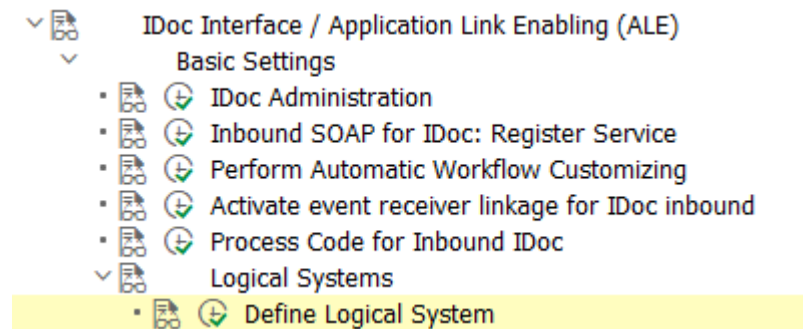
- Push (Send from RDM)
- Pull (Call from outside)

Examples:

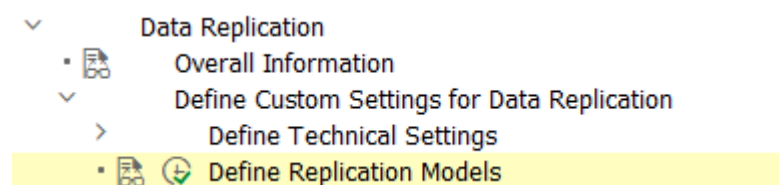
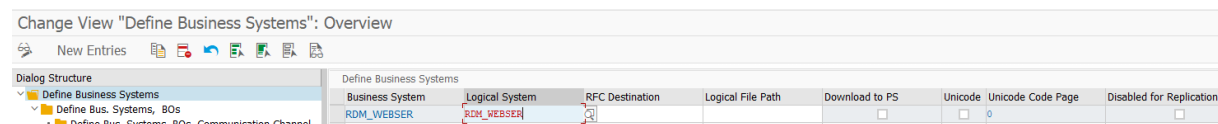
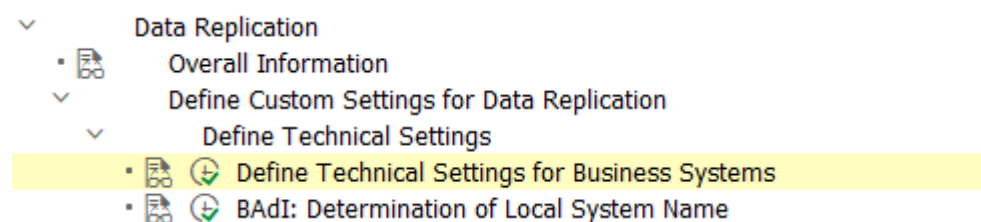
- Push (generic): /ITR/RDM_WS_SEND_OBJECT
- Pull (generic): /ITR/RDM_WS_GET_OBJECT

- Pull (object-specific): /ITR/RDM_WS_GET_PLANT

Transaction SALE: Define Logical System



Transaction DRFIMG: Define Technical Settings and Replication Models



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

Replication Model	Description	Log Days	Data Model	Active
RDM	Reference Data Management	15	I1	<input checked="" type="checkbox"/>

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

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
 - Assign Target Systems for Repl. Model /Outb.Impl
 - Assign Outbound Parameter
 - Assign Download Variants
 - Assign Language

Replication Model	RDM	Reference Data Management
Outbound Implementation	/ITR/MATKL	RDM - Outbound Implementation for MATKL (Material Group)

Assign Target Systems for Repl. Model /Outb.Impl

Business System

RDM_WEBSER

Dialog Structure

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

Rep. Model	RDM	Reference Data Management
Outbound Implementation	/ITR/MATKL	RDM - Outbound Implementation for MATKL (Material Group)

Assign Outbound Parameter

Outbound Parameter	Parameter Description	Mandatory	Outbound Parameter Value	Value Description
/ITR/WEBSERVICEPORT		<input type="checkbox"/>	ALL	
PACK_SIZE_BULK	Package Size for Bulk Messages	<input type="checkbox"/>	0	
SEND_DELTA_INFO	Send Delta information only	<input type="checkbox"/>		

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

Table/View /ITR/DRFOUT_WS

Restrict Data Range

☒ No Restrictions

☐ Enter conditions

☐ Variant

Display Edit Transport Customizing

Business System	Logical system	Logical Port	A
RDM_WEBSER	RDM_WEBSER	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")

3.9.4 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):

[illegible]

3.9.5 Value Mapping

SAP provides the transaction “VMIMG - Value Mapping Customizing” to maintain Value Mappings. Use this transaction to maintain Value Mapping for reference data object types by using:







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


Examples for other attributes:

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

Maintained example:

Change View "Maintain Value Mapping Fields": Overview

Object Type	Global Data Type	Name	Navigation	GDT Default	Client Dep	Context Structure	Input Help	Mapping Class
Data Element	/CTR/T023/BKLAS			<input type="checkbox"/>	<input checked="" type="checkbox"/>		CL_MDG_CODE_LIST_PROVIDER	

Display View "Assign Code Lists": Overview

Dialog Structure

- Assign Code Lists
 - Define Value Mapping

Object Type

DTEL

Global Data Typ

/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		<input type="checkbox"/>	<input type="checkbox"/>	

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	<input type="checkbox"/>	<input type="checkbox"/>
2	0720		9998	<input type="checkbox"/>	<input type="checkbox"/>

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):

[illegible]

Please add the filter objects manually

Dialog Structure

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

Filter Object: /ITR/FKBER RDM - Filter for FKBER OIF

Assign Filters					
Filter	Description	Filter Type	General Filter Parameter	Manual Filter Parameter	Filter Class
80	OIF-Filter for FKBER	Implicit Filter			CL_MDG_OIF_DRF_FILTER

Dialog Structure

Define Filter Objects

Assign Filters

Assign Entity Type

Filter Object

/IIR/PLAIF

RDM - Filter for PLANT OIF

Assign Filters

Filter	Description	Filter Type	General Filter Parameter	Manual Filter Parameter	Filter Class
80	OIF-Filter for PLANT	Implicit Filter			CL_MDG_OIF_DRF_FILTER

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	<input type="text" value="/ITR/_S_I1_DRF_CUR_EXRA"/>		<input type="text" value="CL_USMD_DRF_FILTER"/>

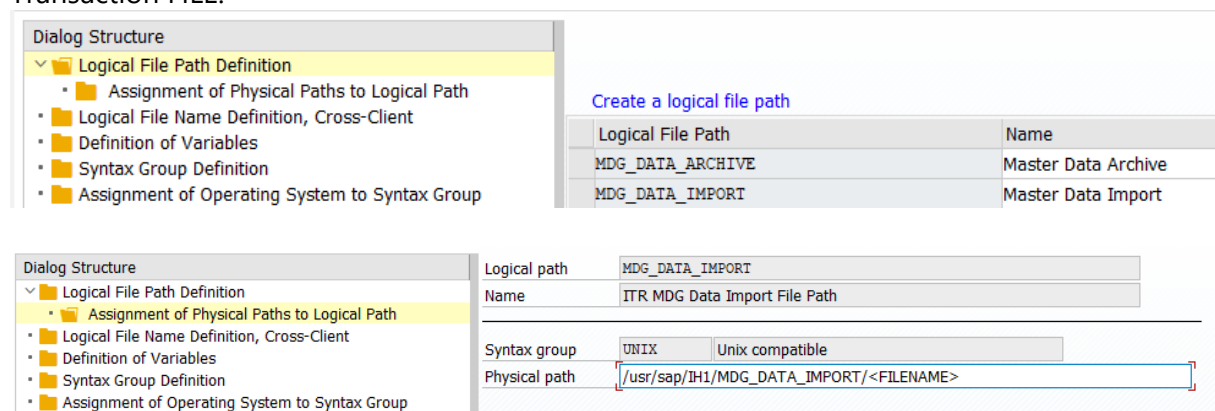
3.10 Set Up Data Transfer

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.

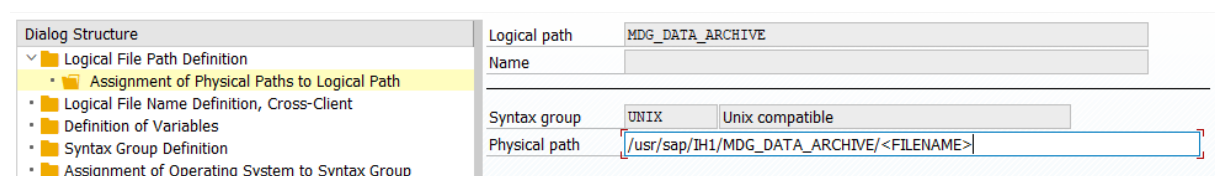
Transaction FILE:



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	
<ul style="list-style-type: none"> Logical File Path Definition <ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> Logical File Path Definition <ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> Logical File Path Definition <ul style="list-style-type: none"> 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:

<ul style="list-style-type: none"> Master Data Governance, Central Governance <ul style="list-style-type: none"> General Settings <ul style="list-style-type: none"> Technical Settings for Master Data Data Modeling UI Modeling Data Quality and Search Process Modeling Data Replication Value Mapping Key Mapping Data Transfer <ul style="list-style-type: none"> Define Object Types for Data Transfer Define File Source and Archive Directories for Data Transfer

Dialog Structure	
<ul style="list-style-type: none"> 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.

3.11 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

3.11.1 Verify the product hierarchy usage in your business applications

The RDM standard delivery assumes an SAP standard configuration of three levels and number ranges have to be maintained according to the Product Hierarchy Set Up in the receiving business applications. The Set Up of the Product Hierarchy in a 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

Customizing Product Hierarchy

- ☒ Maintenance: Prod. Hier. Struc.
- ☐ Maintenance: In/Output Properties
- ☐ Maintenance: Prod. Hier.
- ☐ Maintenance: Field Cat. Pricing
- ☐ Maintenance: Field Cat. Logistics Info. System

☐ Database table

☐ View

☒ Data type

Structure: Active

Short Description:

Attributes **Components** Input Help/Check Currency/quantity fields

Built-In Type 1 / 3

	Component	Typing Method	Component Type	Data Type	Length	Decima...	Coordinate	Short Description
<input type="checkbox"/>	PROD1	Types	▼ PROD1	CHAR	5	0		0 Standard data element PROD1
<input type="checkbox"/>	PROD2	Types	▼ PROD2	CHAR	5	0		0 Standard data element PROD2
<input type="checkbox"/>	PROD3	Types	▼ PROD3	CHAR	8	0		0 Standard data element PROD3

The figure above shows the SAP standard configuration. Please refer to the following SAP note for more information: [1070939 - Consulting: Changing the product hierarchy structure PRODHS - SAP for Me](#).

3.11.2 Configure the product hierarchy usage in RDM

Use transaction /ITR/RDMIMG:



Configure RDM Product Hierarchy level descriptions:



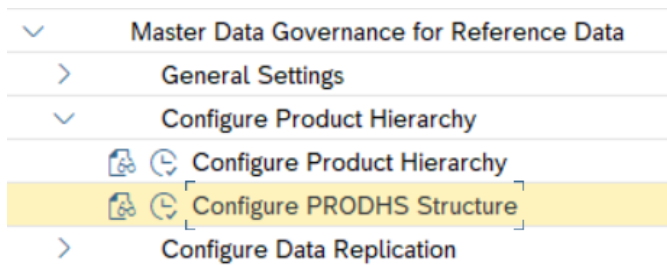
Example for a 3-level product hierarchy:

Prod.H.Lvl	Description (medium text)
1	Division
2	Brand
3	Segment

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.

For more levels Type, Series and Model might make sense.

After this, configure the RDM Product Hierarchy external number length:



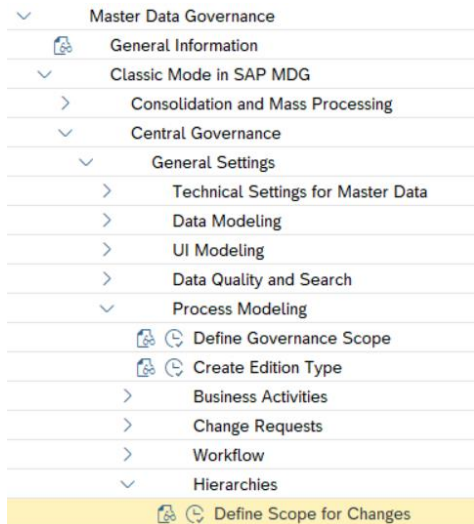
Example for a 3-level product hierarchy:

PRODHS fields	Length
PRODH1	000005
PRODH2	000005
PRODH3	000008

For a 7-level hierarchy probably 000002, 000002, 000002, 000002, 000003, 000003, 000004 might make sense. It is possible to define up to 9 levels and the number should add up to not more than 18 (0000018) characters.

3.11.3 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.

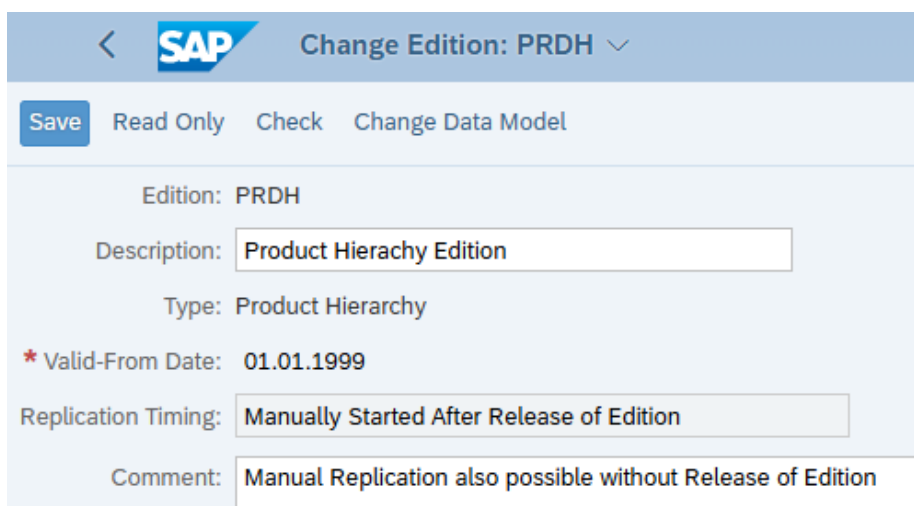


Hierarchy Type	Description	Interlocking
PRODH	Product Hierarchy	Strict

3.11.4 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:



The screenshot shows the SAP Fiori 'Change Edition: PRDH' screen. The 'Edition: PRDH' is selected. The 'Description' field contains 'Product Hierachy Edition'. The 'Type' is 'Product Hierarchy'. The 'Valid-From Date' is '01.01.1999'. The 'Replication Timing' is 'Manually Started After Release of Edition'. The 'Comment' field contains 'Manual Replication also possible without Release of Edition'.

Note: Parallel editions are currently not supported.

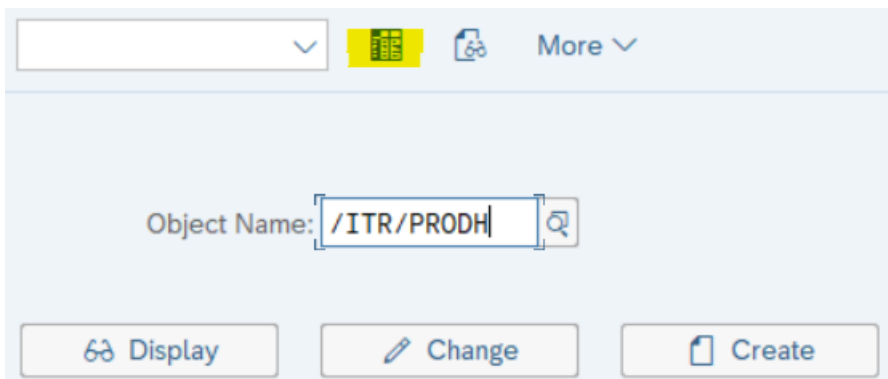
3.11.5 Creation of a Product Hierarchy Name

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.

3.11.6 Maintenance of number ranges

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.



Example:

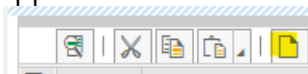
	Number Range No.	From No.	To Number	NR Status
<input type="checkbox"/>	01	000000000015000000	000000000019999999	15000000
<input type="checkbox"/>	02	000000000025000000	000000000029999999	25000000
<input type="checkbox"/>	03	000000000035000000	000000000039999999	35000000
<input type="checkbox"/>	04	000000000045000000	000000000049999999	45000000
<input type="checkbox"/>	05	000000000055000000	000000000059999999	55000000
<input type="checkbox"/>	06	000000000065000000	000000000069999999	65000000

Note: It is recommended to use the same or a similar number range. The idea here is that the first digit is representing the product hierarchy level and the creation of nodes in the user interface will start with 15000000 (for the first level). Data loaded from external sources (see next section) will start with 10000000 creating a number range from 10000000 to 14999999 for uploads (into the first level) and in general for all levels such a number range should be used for the uploads. Please find more details for the extraction and upload of product hierarchy nodes below.

3.11.7 Data Export from business application system

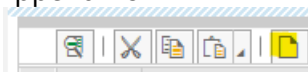
For the data export from the SAP business application system execute transaction SA38 and choose report /ITR/MDG_PROD_H_EXPORT to extract the product hierarchy using the defined number ranges which have been configured for MDG RDM. Choose the following parameters:

- Product Hierarchy Name: "ProdHrchy"
- Delimiter: ";"
- Output Folder on local desktop: <directory> (any directory which can be accessed by the user executing the report)
- Append Row



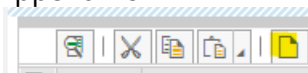
- Level: 1; <StartFrom> (any number which fits to the number range defined above for range number 01; e.g. 10000000 for the initial load)

- Append Row



- Level: 2; <StartFrom> (any number which fits to the number range defined above for range number 02; e.g. 20000000 for the initial load)

- Append Row



- Level: 3; <StartFrom> (any number which fits to the number range defined above for range number 03; e.g. 30000000 for the initial load)

	Level ...	StartFrom
<input type="checkbox"/>	1	10000000
<input type="checkbox"/>	2	20000000
<input type="checkbox"/>	3	30000000

For a five level hierarchy e.g. the following entries might be a good example:

- 1: 10000000
- 2: 20000000
- 3: 30000000
- 4: 40000000
- 5: 50000000

3.11.8 Data Import (File Upload)

After the Data Export the created files have to 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

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

For this, the following upload variants have to be defined:

- Level 1 attributes and texts (PH_NO_ATT and PH_NO_TXT)
 - o Entity Type: Product Hierarchy Node
 - o Attributes Data Row: Product Hierarchy Node, External Number, Prod.Hier.Level


* Variant: 

Name:

<input type="checkbox"/>	Header
<input checked="" type="checkbox"/>	Data Row
<input type="checkbox"/>	Product Hierarchy Node
<input type="checkbox"/>	External Number
<input type="checkbox"/>	Prod.Hier. Level

Selected	
<div> <div>⌵</div> <div>⬆</div> <div>⬇</div> <div>⌵</div> </div>	
<input type="checkbox"/>	Entity Type / Attribute
<input type="checkbox"/>	▼ Header
<input type="checkbox"/>	▼ Data Row
<input type="checkbox"/>	Product Hierarchy Node
<input type="checkbox"/>	Description (long text)
<input type="checkbox"/>	Prod.Hier. Level
<input type="checkbox"/>	External Number
<input type="checkbox"/>	External Number Prefix
<input type="checkbox"/>	External Number Suffix

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

* Variant: 

Name:

<input type="checkbox"/>	Entity Type / Attribute
<input type="checkbox"/>	▼ Header
<input type="checkbox"/>	▼ Data Row
<input type="checkbox"/>	Product Hierarchy Node
<input type="checkbox"/>	Language Key
<input type="checkbox"/>	Description (long text)

- Level 2 (and higher) attributes and texts
 - Same Entity Type and variants as for Level 1 Nodes
- Level 1 hierarchy assignments of level 1 nodes to the product hierarchy name
 - Entity Type: Product Hierarchy Node
 - Higher-level Node: Product Hierarchy Name
 - Lower-level Node: Product Hierarchy Node
- Level 2 (and higher) hierarchy assignments of level 2 nodes to level 1 nodes
 - Entity Type: Product Hierarchy Node
 - Higher-level Node: Product Hierarchy Name, Product Hierarchy Node
 - Lower-level Node: Product Hierarchy Node

Use the variants above to load the data with

- 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



3.12 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:

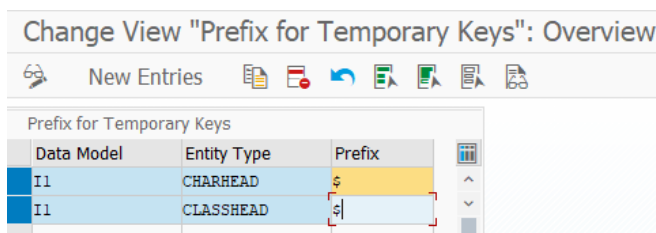
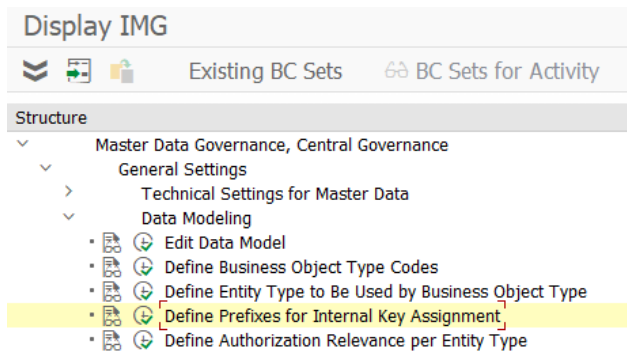
Classes:

Edit Intervals: Classification, Object /ITR/CLF				
				
Number Range No.	From No.	To Number	NR Status	External
01	0000000001	9999999999	60	<input type="checkbox"/>

Characteristics:

Edit Intervals: Characteristics, Object /ITR/CHAR				
				
Number Range No.	From No.	To Number	NR Status	External
01	0000000001	9999999999	40	<input type="checkbox"/>

Additional a prefix for the temporary keys needs to be defined:



3.13 Configure Public Holiday

If the Public Holiday is within the scope of maintained reference data object types 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: SNRO
- Object Name: /ITR/FTGID
- Number Range No.: 01
- From No.: 000
- To Number: Z99

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 SNRO -> Change -> Interval Editing -> NR Status. Set NR Status to the last number identified from Step 2

3.14 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 have to 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 3.4 "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.

3.15 Solution Manager Integration

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

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

3.16 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)

In order 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

In order to get predefined Configuration Groups for Reference Data Harmonization please also consider to activate 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 a 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:

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 - S/4 MDG
IH1400	IH1 Client 400 - S/4 ERP
IR1200	IR1 Client 200 - S/4 ERP

Prompt for workbench request

View Maintenance: ...

Request

Workbench request

Short Description

☒ ☐ ☐ ☐ Own Requests ☒

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

- ▼ Define Custom Settings for Data Replication
 - ▼ Define Technical Settings
 - Define Technical Settings for Business Systems

Change View "Define Business Systems": Overview

New Entries			
Dialog Structure			
Define Business Systems			
Define Business System	Business System	Logical System	RFC Destination
Define Bus. Systems	IH1100	IH1100	
Define Bus. System	IH1400	IH1400	IH1400
	IR1200	IR1200	IR1200

5.1.3 Check or Create BAdI for determination of local system name

System IH1 100, transaction DRFIMG:

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

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

Enhancement Spot MDG_ID_MAPPING_API Active

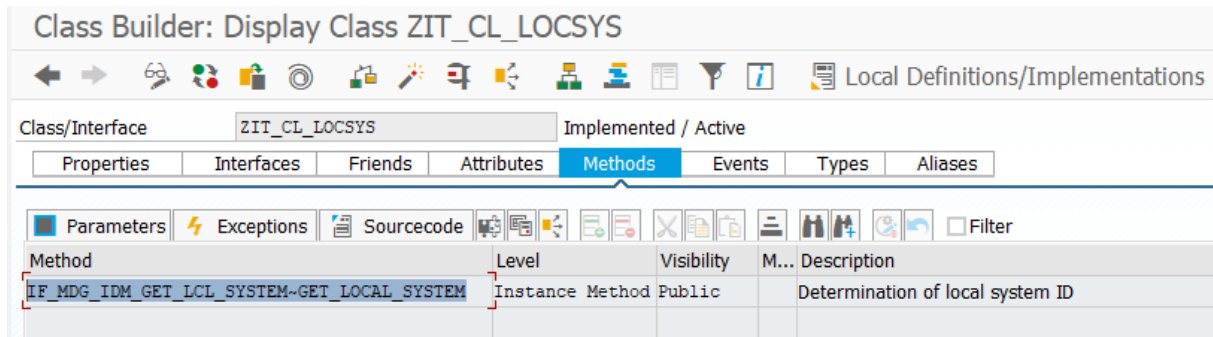
Attributes Enhancem. Implementations Technical Details **Enh. Spot Element Definitions**

BAdI Definitions

BAdI Definition	Description
MDG_IDM_GET_LCL_SYS	Determination of local system

Implementations

Active	Enhancement Implementation	BAdI Implementation
1	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 ).

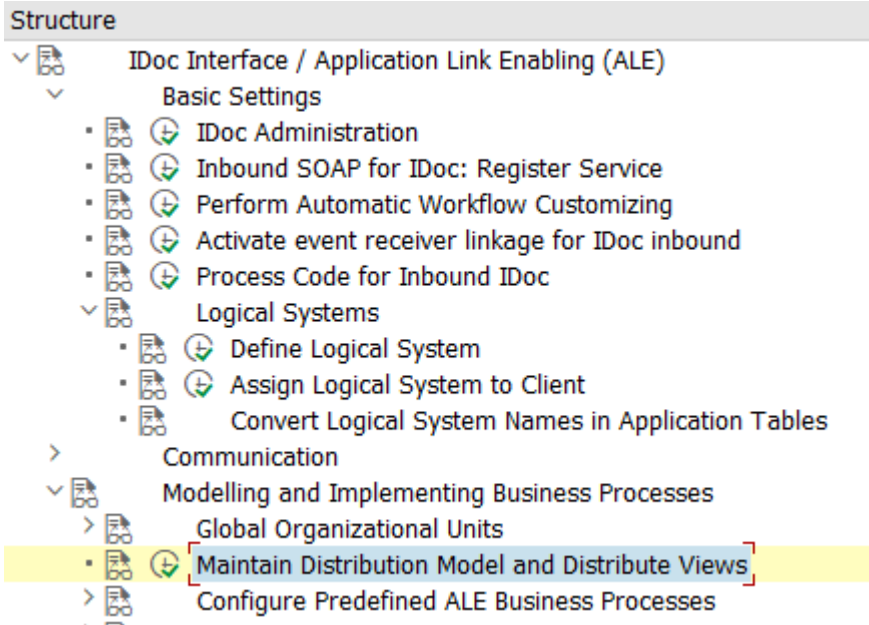
  IF lv_not_found = abap_false.
    ev_local_system = ls_bs_tech-business_system.
  ENDIF.

endmethod.

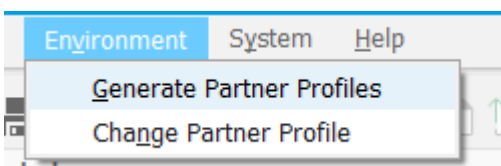
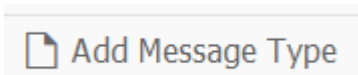
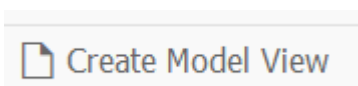
```

5.1.4 Define Distribution Model

Use transaction SALE (or BD64):





Create Model View and Add Message Type



Generate Partner Profile



Model View	<input type="text" value="RDM_REP"/>	to	<input type="text"/>	
Partner System	<input type="text" value="IR1200"/>	to	<input type="text"/>	
Check Run	<input type="checkbox"/>			

Default Parameters for Partner Profile

Postprocessing: Authorized Users

Ty.	<input type="text" value="US"/> User
ID	<input type="text" value="RDM_ADM_01"/> RDM Admin

Outbound

Version	<input type="text" value="3"/> IDoc record types from Version 4.0 onwards
Pack. Size	<input type="text" value="100"/> IDocs
Output Mode	
<input checked="" type="radio"/> Pass IDoc immediately <input type="radio"/> Collect and pass IDocs	

Inbound

Processing	
<input checked="" type="radio"/> Trigger immediately <input type="radio"/> 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
<ul style="list-style-type: none"> Partner Profiles <ul style="list-style-type: none"> Partner Type AD Partner Type B Partner Type BP Partner Type GP Partner Type KU Partner Type LI Partner Type LS <ul style="list-style-type: none"> 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			<input type="checkbox"/> A000000001 @ 100 /ITG/GENERIC02
	SYNCH			<input type="checkbox"/> 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 a tree view of 'Model Views' with 'RDM Replication' and its sub-item 'IH1 Client 100 - S/4 MDG' selected. The right pane shows a list of model views with their descriptions/technical names.

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


Display IMG



Existing BC Sets
BC Sets for Activity

Structure

- ▼ IDoc Interface / Application Link Enabling (ALE)
 - > Basic Settings
 - > Communication
 - ▼ Modelling and Implementing Business Processes
 - > Global Organizational Units
 - **Maintain Distribution Model and Distribute Views**
 - > Configure Predefined ALE Business Processes
 - > Master Data Distribution



Distribution Model
Edit
Goto
Environment
System
Help



<<
>>


Generate Partner Profiles
Change Partner Profile




Display Distribution Model



Check Models
System View
Filter Model Displa

Distribution Model	Description/Technical Name
▼ Model Views	
> ALE_SYNC	ALE_SYNC . No short text exists
> FICADISP30	FICADISP30. No short text exists
• CRM Scenarios	CRMSZ
• Customizing Data Synchronization	CONTRLDATA
> Example of MM contract distribution (filtering at header level)	MM-PUR1
> Example of MM contract distribution (filtering at item level)	MM-PUR2
> Example of distributing test settings	QM-CONTR
• HR <-> FI Scenario	HRFICOUPLI
• Internet Scenarios	INTERNET
• Logistics Scenarios	LOGISTICS
• Master Data Distribution (MDM)	MASTERDATA
▼ RDM Replication	RDM_REP
▼ IH1100	IH1100 . No short text exists
▼ IR1200	IR1200 . No short text exists
• /ITG/GENERIC	RDM: generic message type

Generate Partner Profile



Model View	<input type="text" value="RDM_REP"/>	to	<input type="text"/>	
Partner System	<input type="text" value="IH110"/> 	to	<input type="text"/>	
Check Run	<input type="checkbox"/>			

Default Parameters for Partner Profile

Postprocessing: Authorized Users

Ty.	<input type="text" value="US"/>	User
ID	<input type="text" value="RDM_ADM_01"/>	RDM_ADM_01

Outbound

Version	<input type="text" value="3"/>	IDoc record types from Version 4.0 onwards
Pack. Size	<input type="text" value="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. IH1100 IH1 Client 100 - MDG
Partn.Type LS Logical system

Post Processing: Valid Processors Classification

Ty. US User
Agent RDM_ADM_01 RDM_ADM_01
Lang. EN English

Partner R...	Message type	Message v...	Function	Test	Receiver ...	I... Pa...	Basic type
				<input type="checkbox"/>			
				<input type="checkbox"/>			
				<input type="checkbox"/>			
				<input type="checkbox"/>			
				<input type="checkbox"/>			
				<input type="checkbox"/>			
				<input type="checkbox"/>			
				<input type="checkbox"/>			
				<input type="checkbox"/>			
				<input type="checkbox"/>			

Partner R...	Message Type	Message v...	Function	Test	P...	Process code
	/ITG/GENERIC			<input type="checkbox"/>	@	/ITG/GENERIC_IN_BUNDLE

Partner Profiles: Inbound Parameters

Partner No. IH1100 IH1 Client 100 - MDG
Partn.Type LS
Partner Role

Message Type /ITG/GENERIC
Message code
Message function ☐ Test

Inbound options Post Processing: Valid Processors Telephony

Process code /ITG/GENERIC_IN_BUNDLE

☒ 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

New Entries

Dialog Structure

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

Business System	Logical System	RFC Destination	Logical File Path	Download to PS	Unicode	Unicode Code Page	Disabled for Replication
ER9CLNT003	ER9CLNT003			<input type="checkbox"/>	<input type="checkbox"/>	0	<input type="checkbox"/>
ER9CLNT500	ER9CLNT500			<input type="checkbox"/>	<input type="checkbox"/>	0	<input type="checkbox"/>
IH1100	IH1100			<input type="checkbox"/>	<input type="checkbox"/>	0	<input type="checkbox"/>
IH1400	IR1400	IH1400		<input type="checkbox"/>	<input type="checkbox"/>	0	<input type="checkbox"/>
IR1200	IR1200	IR1200		<input type="checkbox"/>	<input type="checkbox"/>	0	<input type="checkbox"/>

Nothing else to be configured:

Dialog Structure

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

Business System IR1200

Define Bus. Systems, BOs

BO Type	Description

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

Dialog Structure

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

Replication Model: RDM Reference Data Management

Outbound Implementation: /IIR/BLART RDM - Outbound Implementation for GSBER (Busin. Areas)

AssignTarget Systems for Repl. Model /Outb.Impl

Business System
IH1400
IR1200

Dialog Structure

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

Replication Model RDM Reference Data Management

Assign Outbound Implementation

Outbound Implementation	Description
/ITR/BLART	RDM - Outbound Implementation for
/ITR/CCODE	RDM - Outbound Implementation for
/ITR/CURRC	RDM - Outbound Implementation for

Data Replication Model needs to be active:

Dialog Structure

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

Activate Deactivate

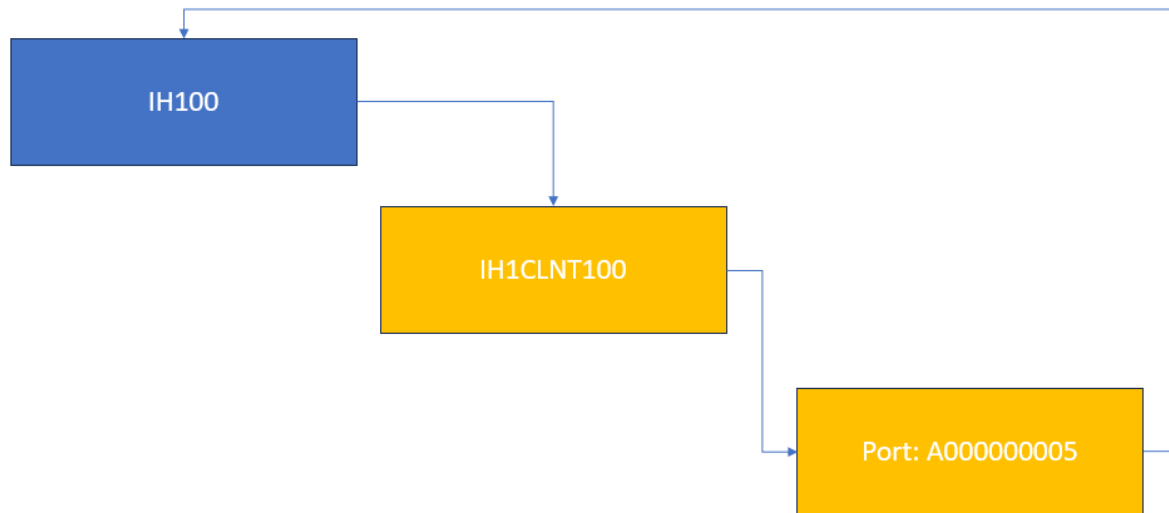
Define Replication Model

Replication Model	Description	Log Days	Data Model	Active
\$S4HTOC4C4	Business Partner Replication to C4C	50		<input type="checkbox"/>
BAMMAST_RM	BAM Master Replication	1		<input type="checkbox"/>
CHAR	Characteristics	15	I1	<input type="checkbox"/>
RDM	Reference Data Management	15	I1	<input checked="" type="checkbox"/>

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
IR3300	IR3 Client 300 - S/4 ERP

SM59: Create RFC Destination

RFC Destination IH1CLNT100

Remote Logon	Connection Test	Unicode Test	Fast Serialization Test
RFC Destination: <input type="text" value="IH1CLNT100"/>			
Connection Type: <input type="text" value="3"/> ABAP Connection		Description:	
Description:			
Description 1: <input type="text" value="IH1CLNT100 (SELF)"/>			
Description 2: <input type="text"/>			
Description 3: <input type="text"/>			
Administration Technical Settings Logon & Security Unicode Special Options			
Target System Settings			
Load Balancing Status			
Load Balancing: <input type="radio"/> Yes <input checked="" type="radio"/> No			
Target Host: <input type="text" value="ih1r3.itego.de"/>		Instance No.: <input type="text" value="00"/>	
Save to Database as:			

RFC Destination IH1CLNT100

Remote Logon
Connection Test
Unicode Test
Fast Serialization Test

RFC Destination: IH1CLNT100

Connection Type: 3 ABAP Connection Description

Description

Description 1: IH1CLNT100 (SELF)

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: EN

Client: 100

User: IT_ERP_01 ☐ Current User

PW Status: saved

Trust Relationship ☒ No ☐ Yes

Status of Secure Protocol

☒ SNC ☐ 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
> <input checked="" type="checkbox"/> IH1 Client 100 - S/4 MDG	IH1100
> <input checked="" type="checkbox"/> IH1 Client 400 - S/4 ERP	IH1400
> <input checked="" type="checkbox"/> IH1 Client 100 - S/4 ERP	IH1CLNT100
• <input checked="" type="checkbox"/> /ITG/GENERIC	RDM:
> <input checked="" type="checkbox"/> IR1 Client 200 - S/4 ERP	IR1200
> <input checked="" type="checkbox"/> IR1 Client 100 - S/4 ERP	IR1000

Generate Partner Profiles

Task	System	Status	Result
Partner	System IH1100	○○	System IH1100 already exists as partner
	System IH1CLNT100	○○	System IH1CLNT100 already exists as partner
Port	System IH1CLNT100	○○	Port A000000005 with RFC destination IH1CLNT100 already exists
Outbound		○▲	No unique IDoc type found for message type /ITG/GENERIC . Check !
	System IH1CLNT100	○○	Outbound parameters for message type /ITG/GENERIC /ITG/GENERIC02 already exist
		○○	Outbound parameters for message type SYNCH SYNCHRON already exist

Check manually WE20: IH1100 / Outbound and Inbound! (IH1CLNT100 is only a "dummy")

- Partner Type LS
 - IH1100
 - IH1400
 - IH1CLNT100
 - IR1200
 - IR2200
 - S01400
 - SELF
- Partner Type US

Logical syst
IH1 Client 1
IH1 Client 4
IH1 Client 1
IR1 Client 2
IR2 Client 2
S01 Client
IH1 Client 1
User (first

Lang. EN English

Outbound

Partner R...	Message type	Message v...	Function	Test	Receiver ...	I... Pa...	Basic type
	/ITG/GENERIC			<input type="checkbox"/>	A000000005	@ 50	/ITG/GENERIC02
	SYNCH			<input type="checkbox"/>	A000000005	@ 100	SYNCHRON

Inbound

Partner R...	Message Type	Message v...	Function	Test	P.. Process code
	/ITG/GENERIC			<input type="checkbox"/>	@ /ITG/GENERIC_IN_BUNDLE

IH1CLNT100 / just Outbound:

- Partner Type LS
 - IH1100
 - IH1400
 - IH1CLNT100**
 - IR1200
 - IR2200
 - S01400
 - SELF
- Partner Type US

Logical sys	Partner R...	Message type	Message v...	Function	Test	Receiver ...	I...	Pa...	Basic type
IH1 Client 1		/ITG/GENERIC			<input type="checkbox"/>	A000000005	@ 1		/ITG/GENERIC02
IH1 Client 4		SYNCH			<input type="checkbox"/>	A000000005	@ 100		SYNCHRON
IH1 Client 1									
IR1 Client 2									
IR2 Client 2									
S01 Client 1									
IH1 Client 1									
User (first									

Message Type

/ITG/GENERIC

RDM: generic message type

Message code

Message function

☐ Test

Outbound Options

Message Control

Post Processing: Valid Processors

Receiver port

A000000005

Transactional RFC

IH1CLNT100 (SELF)

Pack. Size

1

☐ Queue Processing

Output Mode

☒ Pass IDoc Immediately

Output Mode 2

☐ Collect IDocs

IDoc Type

Basic type

/ITG/GENERIC02

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 System
 - ▼ Define Bus. Systems
 - Define Bus. System
 - Define Data Content

Business System	Logical System	RFC Destination
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
 - Assign Target 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

Replication Model

RDM

Reference Data Management

Define Replication Model

Assign Outbound Implementation

AssignTarget System

Assign Outbound

Assign Download

Assign Language

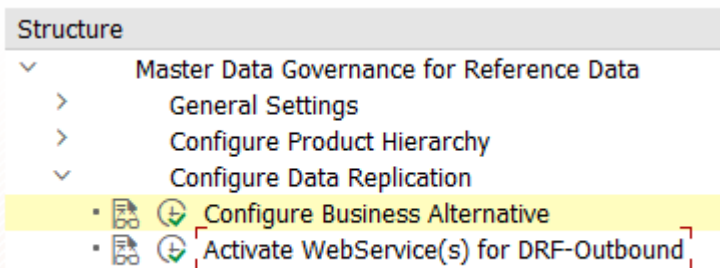
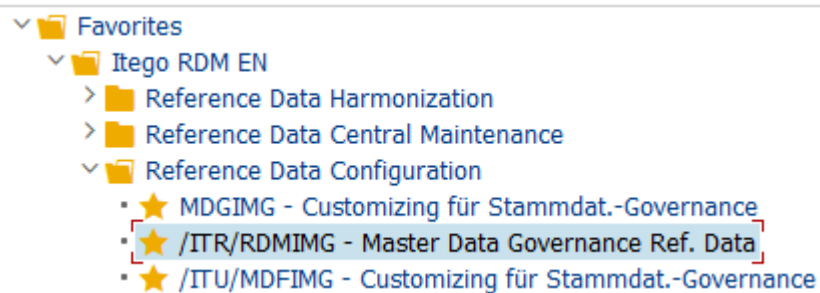
Assign Outbound Implementation

Outbound Implementation	Description	Sequence	Com
/ 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

Change View "AssignTarget Systems for Repl. Model /Ou

Dialog Structure	Replication Model	RDM	Reference Data
<ul style="list-style-type: none"> Define Replication Model <ul style="list-style-type: none"> Assign Outbound Im <ul style="list-style-type: none"> AssignTarget Sys Assign Outbound Assign Download Assign Language 	Outbound Implementation	/ ITR/PLANT	RDM - Outbo
	AssignTarget Systems for Repl. Model /Outb.Impl		
	Business System		
	IH1400		
	IH1CLNT100		
	IR1200		
	IR2200		
	S01400		

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.



Business System	Logical sy...	Entity Type	A
IH1CLNT100	IH1CLNT100	BLART	<input checked="" type="checkbox"/>
IH1CLNT100	IH1CLNT100	COMPCODE	<input checked="" type="checkbox"/>
IH1CLNT100	IH1CLNT100	CURRENCY	<input checked="" type="checkbox"/>
IH1CLNT100	IH1CLNT100	CUR_EXRA	<input checked="" type="checkbox"/>
IH1CLNT100	IH1CLNT100	DAYLIMIT	<input checked="" type="checkbox"/>
IH1CLNT100	IH1CLNT100	DISMM_ET1	<input checked="" type="checkbox"/>
IH1CLNT100	IH1CLNT100	DISPO_ET1	<input checked="" type="checkbox"/>
IH1CLNT100	IH1CLNT100	DISPR	<input checked="" type="checkbox"/>
IH1CLNT100	IH1CLNT100	EKGRP	<input checked="" type="checkbox"/>
IH1CLNT100	IH1CLNT100	EKORG	<input checked="" type="checkbox"/>

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

  	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					
<div>Create Create Special Import</div>					
Actions	Type	Provider System Name	Description	Creation Type	State
  	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> v

SLD Identifier: PROVIDER_SYSTEM_B_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

General	WSDL Access	<u>IBC References</u>	Business Applications	Administrative Information
IBC ID	Type	Name	System	
3D38EACD59B11EED87AABECE382FD6F2	CLIENT	IR1/200	IR1/200	

General	WSDL Access	IBC References	<u>Business Applications</u>	Administrative Information
Name	Description	Business Application ID		
sap.com/BusinessApplicationABAP		3D38EACD59B11EED87AABECE382FD6F2		

5.2.2 Receiver: Service Administration: Business Context

System IR1 200: transaction SOAMANAGER:

Display and maintain Identifiable Business Contexts (IBCs)

Display and maintain Identifiable Business Contexts references (IBC reference)

System IR1 200: transaction SOAMANAGER:

Service Administration

Configure multiple service definitions and service groups supporting change management

Page 74/82




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

<input type="checkbox"/> Actions	Name	Name and Client	Logical Key	Host Name	Publishing System Type	Application	Publ.	Orig.
<input type="checkbox"/>   	IR1	IR1(200)	200.SystemName.IR1.SystemNumber.0090257000.SystemHome.ir1r3#ABAP	ir1r3	ABAP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>










Published Service Definitions

Display and maintain published Service Definitions in Services Registry

<input type="checkbox"/> Actions	Internal Name	External Namespace	External Name	State	Description	Publishing System
<input type="checkbox"/>   	/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



















<input type="checkbox"/> Actions	Binding Name	Service Namespace	Internal Service Name	External Service Name	Publishing Sys
<input type="checkbox"/>   	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
<input type="checkbox"/>   	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
<input type="checkbox"/>   	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



Create Service   Activate Deactivate Delete Republish Display as List

<input type="checkbox"/> Service/Binding	Actions	State	Description
<input checked="" type="checkbox"/> B330F036C1921EDD87C2B0AEB7C14D2B	  	Active	
<input type="checkbox"/> BINDING__-ITR_-RDM_WS_SEND_OBJECT_MYPROFILE_XXX_L	  		
<input checked="" type="checkbox"/> B330F036C1921EED87C87B02F24F87E6	  	Active	
<input type="checkbox"/> BINDING__-ITR_-RDM_WS_SEND_OBJECT_MYPROFILE_XXX_L	  		
<input checked="" type="checkbox"/> <u>Z_IR1200_WS_SEND_OBJECT</u>	  	Active	Z_IR1200_WS_SEND_OBJECT
<input type="checkbox"/> <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

<input type="checkbox"/> Actions	Receiver Name	Receiver Type	Description	Publishing System
<input type="checkbox"/>  	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>

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
3D38EACD59B11EED87AABE382FD6F2	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		3D38EACD59B11EED87AABE382FD6F2

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...	<input type="checkbox"/>
 	PROVIDER_SYSTEM_A_XXX	CLIENT		PROVIDER_SYSTEM_A_XXX	Automatically generated for Bu...	BC-ESI-WS-ABA...	<input checked="" type="checkbox"/>




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

<div>66   </div>			Local	MYSCENARIO_A_XXX	Consumer Scenario	Active
Detail						
Scenario Name: MYSCENARIO_A_XXX						
Scenario Type: Local						
Service Definitions Service Groups Administrative Information						
Internal Name		Description		Provider IBC Reference	Communication Protocol	Is Configured
/ITR/RDM_WS_SEND				CLIENT / PROVIDER_SYST...	Use WS Protocol	<input checked="" type="checkbox"/>

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 Clear values Reset search criteria

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	

<input type="checkbox"/>	Internal Name	Actions	Binding/Log.Port	Type	State	Creation Type
<input type="checkbox"/>	/ITR/CO_WS_CONS__ITR__RDM_WS_S	  	6045BD8B74AC1EED87C8A5555CAAC320	Logical Port	Active	Created based on profile MYPROFILE_XXX/1/Local
<input type="checkbox"/>		  	Z_PORT_TO_IR1200	Logical Port	Active	Manually created
<input type="checkbox"/>	/ITR/RDM_WS_GET_OBJECT	  	Z_RDM_GET_OBJECT	Binding	Active	Manually created
<input type="checkbox"/>	/ITR/RDM_WS_GET_PLANT	  	Z_RDM_GET_PLANT	Binding	Active	Manually created
<input type="checkbox"/>	/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

Create

<input type="checkbox"/>	Actions	Logical Port	State	Logical Port is Default	Description	Creation Type
<input type="checkbox"/>	  	6045BD8B74AC1EED87C8A5555CAAC320	Active		Provider System: PROVIDER_SYSTEM_A_XXX	Created based on pro
<input type="checkbox"/>	  	<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

<input type="checkbox"/>	Actions	Name	Name and Client	Logical Key	Host Name	Publishing System Type	Application	Publ.	Orig.
<input type="checkbox"/>	 	IH1	IH1(100)	100.SystemName.IH1.SystemNumber.0090257000.SystemHome.IH1r3#ABAP	ih1r3	ABAP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Published Service Definitions

Display and maintain published Service Definitions in Services Registry

<input type="checkbox"/>	Actions	Internal Name	External Namespace	External Name	State	Description	Publishing System
<input type="checkbox"/>	 	/ITR/RDM_WS_GET_OBJECT	urn:sap-com:document:sap:soap:functions:mc-style	/ITR/RDM_WS_GET_OBJECT	Configured		IH1(100) on ih1r3
<input type="checkbox"/>	 	/ITR/RDM_WS_GET_PLANT	urn:sap-com:document:sap:soap:functions:mc-style	/ITR/RDM_WS_GET_PLANT	Configured		IH1(100) on ih1r3
<input type="checkbox"/>	 	/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

<input type="checkbox"/> Actions	Binding Name	Service Namespace	Internal Service Name	External Service Name	Publishing System
<input type="checkbox"/>  	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
<input type="checkbox"/>  	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
<input type="checkbox"/>  	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

<input type="checkbox"/> Actions	Receiver Name	Receiver Type	Description	Publishing System
<input type="checkbox"/>  	IH1/100	CLIENT		IH1(100) on ih1r3