Reference Data Management 2311

for SAP Master Data Governance

Configuration



Version: 15.04.2024



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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 <u>http://help.sap.com/mdg</u> (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").

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 *received* "Activate".

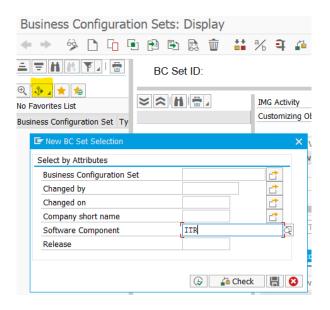


3.3 Activate Business Configuration Sets

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 <u>support@itego.de</u> (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).

3.3.1 SAP MDG: BC Sets

Note: If you choose to activate a BC Set, please activate all versions that are available starting with version <n>=01 for

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>
- /ITR/MDG_RDM_BUSACT_<n>
- /ITR/MDG_RDM_DRF_BUS_ALT_<n>
- /ITR/MDG_RDM_GOVSCOPE_<n>

MDG RDM Framework Basic Settings MDG RDM Business Activities MDG RDM Replication Business Alternative MDG RDM Governance Scope

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

BC Set	/ITR/MDG_RDM_GOVSCOPE_01	
Short Text	MDG RDM Governance Scope	
 Activation Options 		×
Caution You ha	ve started the BC Set activation	Activation Options
Activated By:	HOEWLERD	Overwrite Data
Date/Time:	01.02.2024 / 15:16:13	Overwrite All Data
System/Client:	IH1 / 100	O Do Not Overwrite Default Values
Workbench Regst:	Not Required	
Customizing Regst:	IH1K900054	Select Activation Mode
Activation Links:	Create Locally	O Default Mode (Recommended)
		O Expert Mode
Activation Languages:	German	
	English	Deletion Functionality
		Enable for Classical BC Sets

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>
- /ITR/MDG_RDM_WORKFLOW_<n>

MDG RDM Change Request Types MDG RDM Workflow

• /ITR/WDG_RDW_WORKFLOW_</i>

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>
- /ITR/ITEGO_MDG_RDM_DISP_<n>
- /ITR/ITEGO_MDG_RDM_REQ_<n>
- /ITR/ITEGO_MDG_RDM_SPEC_<n>
- /ITR/ITEGO_MDG_RDM_STEW_<n>
- Display Role Requester

NWBC Menu

- Data Specialist
- 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
- /ITR/MDG_STAGING_<n>
- /ITR/MDG_LSA_ADMIN_<n>
- /ITR/MDG_LSA_SNAPSHOT_MNG_<n>

Local Staging Area Menu Local Staging Area Local Staging Area Administration 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.

Structure
Master Data Governance, Central Governance
General Settings
Technical Settings for Master Data
🕀 🛛 Data Modeling
🕀 UI Modeling
 UI Modeling Data Quality and Search Process Modeling
Process Modeling
- 🗟 🕀 Define Governance Scope
- 🗟 🕒 Create Edition Type
Business Activities
Change Requests
Workflow
🔤 🕒 Activate Event Type Linkage
📴 🍄 Configure Workflow Tasks
🔤 🖳 Define Change Request Actions
🛃 🤀 Define Change Request Step Types and Assign Actions
Rule-Based Workflow
🔤 👺 Define Change Request Steps for Rule-Based Workflow
🔤 👺 Define Service Names for Rule-Based Workflow
🔤 🍰 🕼 Configure Rule-Based Workflow
⊞ Business Add-Ins
Other MDG Workflows

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: <u>BRFplus User</u> <u>Guide</u>.

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: <u>How to copy BRF+ rules in your target client</u>) and Itego implemented a convenient way to transfer



the customizing using the SAP XML Export/Import functionality of BRF+ (see also: <u>Export and Import of BRFplus XML Data</u>). 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

Package 🗸	
/ITR/BRFPLUS 🗸 😪	
← - → - 중 숲 ╠ 器 ⊮ - ᢒ	
Object Name	Description
🖻 🗂 /ITR/BRFPLUS	RDM: BRFPlus
🖃 🔂 Dictionary Objects	
🖻 🔂 Database Tables	
🕀 🧰 /ITR/BRFPLUS	RDM: BRFPlus-Applications/Catalogs
🖻 🔂 Programs	
🖽 🗀 /ITR/BRFPLUS_EXPORT	RDM: Export of BRFPlus-Applications/Catalogs
🕀 🦲 /ITR/BRFPLUS_IMPORT	RDM: Import of BRFPlus-Applications/Catalogs

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 customizing request has to be created with transaction SE09 or SE10. After creating the request run transaction SE38 and start report /ITR/BRFPLUS_IMPORT:



→ ABAP Editor:	nitial Screen						
Program Edit	Goto Utilities	Environment	System	Help			
		🖂 🔳 😋	🙆 🚷	🕒 🕅 (6 4 1		ж 🕗
🖧 🔻 🕒 🚓	🏜 📘 🛅	🗅 🕅 🏟 🗗	ebugging	🕀 With Va	ariant 🤄 Va	riants	
Drogram	(TTD (PDFDI	IS INDODT			Create		
Program	/ITR/BRFPLU	J5_INFORI			Create		
Subobjects							
O Source Code							
Variants							
○ Attributes							
O Text element	ts						
 Documentati 	on						
ം Display		Change					



The report offers the following selection criteria:

	olications/Catalogs		_	
<u>P</u> rogram <u>E</u> dit <u>G</u> oto S <u>v</u> stem	<u>H</u> elp			5
	🖂 📙 😋 😔 😓 (10 08 4	• • • • •	🕱 🛛 🕅 🔞
₽				
ChangeRequestType		to		•
XML-Version	1,13			
Transport Request	?			
Simulation?				
	/ITR/BRFPLUS		id1r3 INS	≒ 6 //

• 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



RDM: Import of BRFPlus-Applications/Catalogs	_	×
<u>P</u> rogram <u>E</u> dit <u>G</u> oto S <u>y</u> stem <u>H</u> elp		- 5
🎯 🔄 🚽 🔄 🔜 🔛 😫 🚱 🔜 🛍 🖼 📾 📾 🗮 🗷] 🔞	
⊕		
ChangeRequestType IMRP1502 ~ to	\$	
XML-Version 1,13		
Transport Request 426		
Simulation?		
		 -
/ITR/BRFPLUS_IMPORT - id1r3	3 INS	ð //

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:

RDM: Import of BRFPlus-Applications/Catalogs	—	\times
<u>L</u> ist <u>E</u> dit <u>G</u> oto S <u>y</u> stem <u>H</u> elp		
	2	
RDM: Import of BRFPlus-Applications/Catalogs		1
Value '' does not exist in the value list XML has been imported successfully with transport request ID \$X2P000000000000444 SAP Business Rule Framework plus Workbench Tools - Repository Catalog Switch to Other Catalog 32 C2 Catalog Structure H Status - USMD_SSW_CATA_JMRP1502 - USMD_SSW_CATA_JMRP1502 - CTRIGER_FUNCTION - USMD_FN_CALL_DT_R - USMD_FN_CALL_DT_R - USMD_FN_CALL_DT_R - USMD_SERVICE_NAME E: CNST_PROC_DT_SERVICE_NAME E: CNST_PROC_DT_SN_III		
✓ <u>C</u> DECISION_TABLE If DT_NON_USER_AGT_C If DT_USER_AGT_GRP_I* If DT_USER_AGT_GRP_I* If DT_SINGLE_VAL_IMRP		



Your created customizing request has one entry for TDAT FDT0000

Request/Task 1427				Customizing Task	c				
F	Properties	Objects	Documentation						
	4 2 2	🕄 🔶 🛔	101 7 4	日本	4 2 2		1 / 1		
	Short [Description		Program ID	Object Type	Object Name		Fun	Lo
	Custo	mizing: Ta	able Contents	R3TR	TDAT	FDT0000			

and 224 entries for table keys in different tables:

Request/Task		1427	Cus	stomizing Task	
Properties	Objects Do	cumentation			
Key for obje	ct R3TR TDAT	FDT0000 (FDT/	RFplus: Centra	al Transport Object for C-Tables)	
Language: -	- IM	G Activity: -			
		H 7 A 🗄	B		221 / 224
Table Na	me	Table Keys			
FDT_RLS	T_0001	1003497F65F	23B11ED89EF3	316251425139F000000*	
FDT_RLS	T_1000	1003497F65B	23B11ED89EF3	316251425139F000000*	
FDT_RLS	T_1100	1003497F65B	23B11ED89EF3	316251425139F000000*	
FDT_RLS	T_1200	1003497 F 65B	23B11ED89EF3	316251425139F000000*	

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.
- 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 SAP MDG: Adjust Global 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.

3.6.2 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 please maintain the individual scope in view /ITR/LSA_TABS_FV via transaction SM30. 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.

\sim	1	Master Data Governance, Central Governance
~		General Settings
	>	Technical Settings for Master Data
	>	Data Modeling
	>	UI Modeling
	\mathbf{v}	Data Quality and Search
	~	Search and Duplicate Check
		Search and Duplicate Check

Change View "Allocation of entities to Search Applications": Overview 69 New Entries 🗈 🖥 🖍 🗊 🕼 📾 Dialog Structure DB 🗇 Search Mode Define Search Application Allocation of Search Help to Search Applications Allocation of entities to Search Applications Allocation of entities to Search Help Data Model Entity Type Pref.Lang. Allocation of entities to Search Applications Match Profile Relevant Fields

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 MDG RDM Workflow

/ITR/MDG_RDM_WORKFLOW_<n>

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.

3.9.1 Data Replication Framework settings

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

Change View "Define Replication	Model": Overview	W						
🦻 New Entries 🗈 🖥 🖡 🕵 🕵								
Dialog Structure V 🚽 Define Replication Model					🎢 Activate	🌾 Deact	ivate	
 Assign Outbound Implementation AssignTarget Systems for Repl. Model / Assign Outbound Parameter 	Define Replication Model	del Description	Log Days	Data Model	Active		iii	
 Assign Outbound Furdineter Assign Download Variants 	RDM	Reference Data Management	15	11		\checkmark	^	

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



Change View "Assign Outbound Implementation": Overview									
🤣 New Entries 🗈 🖪 K 🗊 🕼									
Dialog Structure Replication Model RDM Reference Data Management									
Assign Outbound Implementation	Assign Outbound Implementa	ation							
 AssignTarget Systems for Repl. Model / Assign Outbound Parameter 	Outbound Implementation	Description	Sequence	Communication Channel					
Assign Download Variants	/ITR/EKGRP	RDM - Outbound Implementation for EKGRP (Purchasing Gro.	. 1	Replication via IDoc					
• 📙 Assign Language	/ITR/EKORG	RDM - Outbound Implementation for EKORG (Purchasing Org		Replication via IDoc					
	/ITR/ERKRS	RDM - Outbound Implementation for ERKRS (OperConc.)		Replication via IDoc					

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

Transaction: DRFIMG

 Data Replication
Overall Information
> Define Custom Settings for Data Replication
 Enhance Default Settings for Outbound Implementations
• 🗟 😡 Define Parameters
• 🛃 😡 Define Filter Objects
> Define Business Objects and Object Identifiers
• 🗟 😡 Define Service Operations Available for Replication

- B (Define Outbound Implementations)
 B (Define Outbound Interface Models

Object Type	Outbound	Outbound
	Implementation	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

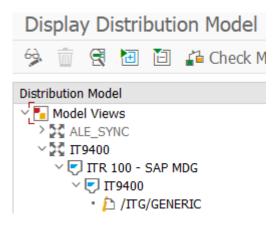
Note: You do not have to change the outbound implementation classes for other objects. They follow a generic approach even if the classes do not have a "_GEN" suffix.

3.9.2 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 parmtrs.							
	Partner R	Message Type	Message v	MessageFu	Test	P	Process code
		/ITG/GENERIC				OÞ	/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 you implementation scope, please add these message types as shown in the previous chapter.

Example from Transaction BD64 (Sender):

V 🚰 RDM Replication	RDM_REP
V V IH1 Client 100 - S/4 MDG	IH1100
V IR1 Client 200 - S/4 ERP	IR1200
• 🔁 /ITG/GENERIC	RDM: generic message type
> 🔁 CLSMAS	Class system: Classes master
> 🎦 CHRMAS	Class system: Characteristics master
A Strange Rate.SaveReplica	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				A00000001	ľ	100	CHRMAS05
	CLSMAS				A00000001	O	100	CLSMAS04
	EXCHANGE_RATE				A00000001	Û	100	EXCHANGE_RATE01

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

inbound						
Partner R	Message Type	Message v	Function	Test	P Process coo	le
	CHRMAS				0 [►] CHRM	
	CLSMAS				① [►] CLSM	
	EXCHANGE_RATE				0Р ВАРР	

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



Display IMG					
😆 🗄 🧯 Existing BC Sets	s 60 BC Sets				
Structure					
 Data Replication Overall Information Define Custom Settings for Define Technical Settings B 😔 Define Replication Models B 😔 Define Business Object Settings 	5				
Change View "Define Replication Model"	": Overview				
🤣 New Entries 🖺 🖥 🌄 🕵 🕼	BC Set: Change Field Values	2			
AssignTarget Systems for Repl. Model /Outb Data Assign Outbound Parameter	efine Replication Model Replication Model Description DM Reference Data Ma	Log Days nagement 15		Activate Deact	
Change View "Assign Outbound Imp	lementation": Overview				
	lementation": Overview BC Set: Change Field V	_			
 Mew Entries Image: Image:			ment		
New Entries New Entries New Entries New Entries Dialog Structure Define Replication Model	BC Set: Change Field V Replication Model RDM Assign Outbound Implementation	alues 🗟	ment		
 New Entries Define Replication Model Assign Outbound Implementation AssignTarget Systems for Repl. Model /Outb Assign Outbound Parameter 	BC Set: Change Field V Replication Model RDM Assign Outbound Implementation Outbound Implementation D	alues 🗟 Reference Data Manage escription	Sequence	Communication Chann	
 New Entries New Entries Define Replication Model Assign Outbound Implementation Assign Target Systems for Repl. Model /Outb Assign Outbound Parameter Assign Download Variants 	BC Set: Change Field V Replication Model RDM Assign Outbound Implementation Outbound Implementation D /ITR/CHAR	alues 23	Sequence	Replication via ID	oc
 New Entries New Entries Define Replication Model Assign Outbound Implementation AssignTarget Systems for Repl. Model /Outb Assign Outbound Parameter 	BC Set: Change Field V Replication Model RDM Assign Outbound Implementation Outbound Implementation D /ITR/CHAR OUTR/CLASS	Reference Data Manage escription utbound Implementation for utbound Implementation for	Sequence Chara Class	Replication via ID Replication via ID	oc oc
 New Entries New Entries Image: Second se	BC Set: Change Field V Replication Model RDM Assign Outbound Implementation Outbound Implementation D /ITR/CHAR 00 /ITR/CLASS 00 /ITR/CURRC Rd	Reference Data Manage escription utbound Implementation for utbound Implementation for M - Outbound Implementat	Sequence Chara Class on for	Replication via ID Replication via ID Replication via ID	
 New Entries New Entries Image: Second se	BC Set: Change Field V Replication Model RDM Assign Outbound Implementation Outbound Implementation D /ITR/CHAR 0 /ITR/CLASS 0 /ITR/CURC RI /ITR/CUR_E RI	Reference Data Manage escription utbound Implementation for utbound Implementation for	Sequence Chara Class on for on for	Replication via ID Replication via ID	

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



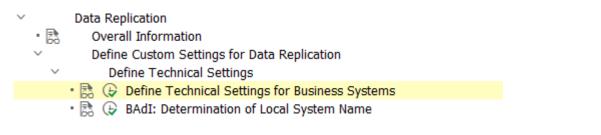
• Pull (object-specific): /ITR/RDM_WS_GET_PLANT

Transaction SALE: Define Logical System

✓ ➡ 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
Change View "Logical Systems": Overview

	-		-						
69	New	Entries	E	5		E	R	B	23
Logical Systems									
Log.	.System	Name							iii
RDM_	WEBSER	Webservice							^
									~

Transaction DRFIMG: Define Technical Settings and Replication Models



ialog Structure	Define Business Syste	ms						
📁 Define Business Systems	Business System	Logical System	RFC Destination	Logical File Path	Download to PS	Unicode	Unicode Code Page	Disabled for Replication
 Define Bus. Systems, BOs Define Bus. Systems, BOs, Communication Channel 	RDM_WEBSER	RDM_WEBSER	a				0	

Data Replication
 Overall Information
 Define Custom Settings for Data Replication
 Define Technical Settings
 B (Define Replication Models



Define Replication Model										
Assign Outbound Implementation			Define Replica	tion Model						
 AssignTarget Systems for Repl. Model /Outb.Impl Assign Outbound Parameter 	I		Replication M	odel Descrip	ption		Log Days	Data Model	Active	
Assign Outbound Parameter Assign Download Variants			RDM	Referen	nce Data Mana	agement	15	11	V	
Define Replication Model										
V 🧧 Assign Outbound Implementation		Assign Outbour	nd Implementatio	n						
 AssignTarget Systems for Repl. Model /Outb.Impl Assign Outbound Parameter 		Outbound Imp	lementation (escription		Se	quence Communio	ation Channel	Filter Time	
Assign Doubloard Parameter Assign Download Variants		/ITR/MATKL	7	M - Outbound Im	plementation for	r MATKL.	Replicati	on via IDoc	✓ Filter After Ch	ange Ar
Assign Language		/ITR/MMSTA		DM - Outbound Im			Replicati	on via IDoc	✓ Filter After Cr	ange Ar
		TTD (MDDDD		uthound Implomon	station for MDD A	Area	Donlight	on win Then	U Filton Afton (3	
Define Replication Model V Assign Outbound Implementation	el /Outb.Impl		l Implement		TR/MATKL	RDM - O	ce Data Manag utbound Imple		r MATKL (Material	Group
Define Replication Model	el /Outb.Impl	Outbound Assign Busine	l Implement		TR/MATKL	RDM - O	-		r MATKL (Material	Group
Define Replication Model Assign Outbound Implementation Assign Outbound Parameter Assign Outbound Parameter Assign Download Variants Assign Language		Outbound Assign Busine	l Implement Target Syste ess System	ems for Repl.	TR/MATKL	RDM - O Itb.Impl	-		r MATKL (Material	Group
Define Replication Model Assign Outbound Implementation AssignTarget Systems for Repl. Mode Assign Outbound Parameter Assign Download Variants Assign Language	Rep. Model	Outbound Assign Busine RDM_1	Target System WEBSER	ration /I?	TR/MATKL	RDM - O utb.Impl	utbound Imple	mentation for		•
Define Replication Model Assign Outbound Implementation Assign Outbound Parameter Assign Outbound Parameter Assign Download Variants Assign Language Nalog Structure Define Replication Model Massign Outbound Implementation		Outbound Assign Busine RDM_1	Target System WEBSER	ration /I?	TR/MATKL	RDM - O utb.Impl	-	mentation for	r MATKL (Material Get default s	
Define Replication Model Assign Outbound Implementation Assign Outbound Parameter Assign Outbound Parameter Assign Download Variants Assign Language Halog Structure Assign Content Model Assign Target Systems for Repl. Model /Outb.Impl	Rep. Model Outbound Imple	Outbound Assign Busine RDM_1	Target System WEBSER	ration /I?	TR/MATKL	RDM - O utb.Impl	utbound Imple	mentation for		
Define Replication Model Assign Outbound Implementation Assign Target Systems for Repl. Mode Assign Outbound Parameter Assign Download Variants Assign Language Halog Structure Define Replication Model Assign Outbound Implementation Assign Target Systems for Repl. Model /Outb.Impl Assign Outbound Parameter	Rep. Model Outbound Imple Assign Outbou	Outbound Assign Busine RDM_1	d Implement Target Syste ess System WEBSER RDM /ITR/MAT	ation /IT ems for Repl. Reference Dat TL RDM - Outbou	TR/MATKL	RDM - O Itb.Impl It ation for M	utbound Imple	mentation for	Get default s	ettings
Define Replication Model Assign Outbound Implementation Assign Outbound Parameter Assign Outbound Parameter Assign Download Variants Assign Cutbound Implementation Assign Outbound Implementation Assign Outbound Implementation Assign Outbound Parameter Assign Outbound Parameter Assign Outbound Parameter Assign Outbound Parameter Assign Outbound Variants	Rep. Model Outbound Imple Assign Outbou Outbound Pa	Outbound Assign Busine RDM_1	d Implement Target Syste ess System WEBSER RDM /ITR/MAT	ration /I?	TR/MATKL	RDM - O Itb.Impl It ation for M	utbound Imple	mentation for	Get default s	ettings
Define Replication Model Assign Outbound Implementation Assign Target Systems for Repl. Mode Assign Outbound Parameter Assign Download Variants Assign Language Dialog Structure Define Replication Model Assign Outbound Implementation Assign Outbound Parameter Assign Outbound Parameter Assign Outbound Parameter Assign Outbound Parameter	Rep. Model Outbound Imple Assign Outbou Outbound Pa /ITR/WEBSER	Outbound Assign Busine RDM_1 mentation and Parameter rameter VICEPORT	d Implement Target Syst ess System WEBSER RDM /ITR/MAT Parame	ation /I ems for Repl. Reference Dat CL RDM - Outbou	TR/MATKL . Model /Ou	RDM - O utb.Impl ation for Ma Mandatory	utbound Imple	mentation for	Get default s	ettings
Assign Outbound Implementation AssignTarget Systems for Repl. Mode Assign Outbound Parameter Assign Download Variants Assign Language Dialog Structure Assign Outbound Implementation Assign Outbound Implementation Assign Outbound Parameter Assign Outbound Parameter Assign Outbound Parameter Assign Outbound Parameter Assign Outbound Parameter	Rep. Model Outbound Imple Assign Outbou Outbound Pa	Mentation mentation and Parameter rarmeter vy/ctcprogr	d Implemen Target Syst ess System WEBSER RDM /ITR/MAT Parame Package	ation /IT ems for Repl. Reference Dat TL RDM - Outbou	IR/MATKL I Model /Ou ta Managemen ind Implementa essages	RDM - O Itb.Impl It ation for M	utbound Imple	mentation for	Get default s	ettings

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

able/	View	/1	TR/DRFOUT	WS			
 No En 	rict Data Rar Restrictions ater conditions ariant	-					
Ser .	Display	0	Edit	B	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:

Ke Save		RDM: Compan	y Codes : 0001		
Obj	ect Selection				
,	* Business Object T	ype: RDM: Company C	odes 🗸		
	*Business Syst	tem: ITR100	L L		
* 0	bject ID Type/Objec	t ID: CompanyCode	✓ / 000)1	
Sh	now				
Ма	pped Objects				
A	dd Row Change	Row Delete Row	Undo Changes		
Ē	*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	n						
Selection Criteria							
Bus. Obj. Type	RDM: Company Codes	;	~				
Object ID Type	I_COMPCODE						
Business System							
ID Value							
Selected Objects							
🕄 I 🛋 🖛 🖊	μ Υ ι Σι Σ/Σ	⊿ I 🖶	(j) 🖌 🕒 🖌 🗐	🗄 🚹 🚺			
*	Object ID	ID Value	оп	Description	Bus. Sy		Mapping Group ID
3497F65B23B11E	DCB2E0607019971AA5	0001		CompanyCode		3497F65B23B11E	EDCB2E0607019979AA5
	DCB2E0607019975AA5			CompanyCode		3497F65B23B11E	EDCB2E0607019979AA5
	DCB2E065A900D5DADA		-	CompanyCode		3497F65B23B11E	EDCB2E065A900D65A
	DCB2E065A900D61ADA		-	CompanyCode		3497F65B23B11E	EDCB2E065A900D65A
3497F65B23B11E	DCBFD380240D00C7B3	GD01	-	CompanyCode		3497F65B23B11E	EDCBFD380240D0167B3
3497F65B23B11E	DCBFD380240D0127B3	GD99	I_COMPCODE	CompanyCode	ITR400	3497F65B23B11E	EDCBFD380240D0167B3
Mapping Groups of	an Object						
		. 🚍	ĝ, 5,	I I i			
	Object ID			Description	Bug Sv	Bus. Obj. Type	Description
3497E65B23B11E	DCB2E0607019971AA5			CompanyCode			RDM: Company Codes
	DCB2E0607019975AA5		-	CompanyCode		-	RDM: Company Codes

Export to Spreadsheet:

	В	E	G
	ID Value		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):



IDoc Display: 0000	00000004	1974	
Segments with Errors			
IDoc display	Additio	Short Technical	Information
 ITG/POSITIONS 	Segment 0 ^	Direction	1 Outbox
 ITG/POSITIONS 	Segment 0 ~	Current Status	03 00
ITG/POSITIONS	Segment 0	Basic type	/ITG/GENERIC02
	Segment 0 Segment 0	Extension	
 Image of the state of the stat	Segment 0	Message Type	/ITG/GENERIC
ITG/POSITIONS	Segment 0	Partner No.	ITR400
 ITG/POSITIONS 	Segment 0	Partn.Type	LS
 ITG/POSITIONS 	Segment 0		
 ■ /ITG/POSITIONS 	Segment 0	Port	A00000001
• D /ITG/POSITIONS	Segment 0		
	Segment 0	Content of Sele	ected Segment
 ITG/POSITIONS ITG/POSITIONS 	Segment 0 Segment 0	Fld Name	Fld Cont.
ITG/POSITIONS	Segment 0	MSGFN	004
ITG/POSITIONS	Segment 0	DATA	100 <mark>4001</mark> SAP SE
 ITG/POSITIONS 	Segment 0		
 ITG/POSITIONS 	Segment 0		
• 📄 /ITG/POSITIONS	Segment 0		
• D /ITG/POSITIONS	Segment 0		
	Segment 0		
 ITG/DATA 	Segment 0		

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//<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 Vie	w "Maintain Value Map	ping Fie	lds": Ove	erview				
🤣 🛛 New En	tries 🗈 🖥 🖪 🖍							
Maintain Value M	apping Fields							
Object Type	Global Data Type	Name	Navigation	GDT Default	Client Dep	Context Structure	Input Help	Mapping Class
Data Element 🗸	/ITR/T023/BKLAS		-		V		CL_MDG_CODE_LIST_PROVIDER	



Display View "Assign (Code Lists": Ov	erview							
9 B B B									
Dialog Structure Sign Code Lists Define Value Mapping	Global Data Typ 73 Assign Code Lists Mapping ID List A	TEL V ITR/T023/BKLAS Agency ID /T023/BKLAS	List ID /ITR/T023/BKLAS	List Version ID 01	Internal List ID	Outb. Def.	No Map.	Mapping Class	
Display View "Define"	Value Mapping	": Overview							
9 R R R									
Dialog Structure	Object Type Global Data Type Mapping ID Define Value Mapp Map Comb. Inter 1 0710 2 0720	rnal Code Value	KLAS Descripti	🗞 Ext	ernal Codelist ernal Codelist External Code 9999 9998	Value	Inb.	Def Outb. Def.	

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

Display IMG	í					
😆 🐺 📫	Existing BC Sets	60 BC Sets	for Activity			
Structure						
	opping Il Information ain Value Mapping					
• 🗟 🕞 Define	Code Lists to Elements Technical Settings for	Business Systems				
• 🗟 🕞 Define		Business Systems	ments and Sy	stems": Overv	iew	
• 🗟 🕞 Define	 Technical Settings for W "Assign Code 	Business Systems	ments and Sy	stems": Overv	iew	
Change Viev	 Technical Settings for W "Assign Code 	Business Systems	ments and Sy	stems": Overv	iew	
Change Viev	rechnical Settings for W "Assign Code tries 🗈 🗟 🗲	Business Systems	ments and Sy Business System	rstems": Overv List ID	iew List Agency ID	List Version ID

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):



Segments with Errors	96 🔚					
IDoc display	Additional	Short Technica	al Information			
IDoc 00000000041975		Direction	1 Outbox			
• 📄 Control Rec.		Current Status	03 OO			
Data records	Total number	Basic type	/ITG/GENERIC02			
✓ ITG/HEADER	Segment 000(
 ITG/POSITIONS ITG/POSITIONS 	Segment 000(Segment 000(/ITG/GENERIC			
 Image of the second sec	Segment 0000					
ITG/POSITIONS	Segment 0000	Turtier No.	ITR400			
 ITG/POSITIONS 	Segment 0000	Partn.Type	LS			
 ITG/POSITIONS 	Segment 0000	Port	A00000001			
ITG/POSITIONS	Segment 000(
 ITG/POSITIONS 	Segment 000(
 ITG/POSITIONS 	Segment 000(Fld Name	Fld Cont.			
 ITG/POSITIONS 	Segment 0000	MSGFN	004			
 ITG/POSITIONS 	Segment 000(DATA	10000000049 00401KGM9999			
	Segment 0000	DATA	1000000049 00401KGM9999			
	Segment 000(
✓ ☐ /ITG/HEADER	Segment 000(
 ITG/POSITIONS 	Segment 0000					

Please add the filter objects manually

Dialog Structure	Filter Object	/ITR/FKBIF R	DM - Filter for FKBI	er oif						
Assign Filters	Assign Filters									
	Filter	Description	Filter Type		General Filte	r Parameter	Manual Filter	r Parameter	Filter Class	
	80	OIF-Filter for FKBER	Implicit Filt	er 🗸					CL_MDG_O	IF_DRF_FILTER
				\sim						
ialog Structure Define Filter Objects Sign Filters	Filter Object	/ITR/PLAIF RD	M - Filter for PLAN	T OIF						
Assign Entity Type						Assign Filter	5			
	Filter	Description	F	ilter Type		General Filter	Parameter	Ianual Filter P	arameter F	ilter Class
	80	OIF-Filter for PLANT	1	Implicit Fi	lter ~				9	L_MDG_OIF_DRF_FILTER
					\sim					
Dialog Structure	Filter Object	/ITR/CUR E RDM - F	These fees CLUD. EVDA							
Define Filter Objects	Filler Object	/IIR/COR_E KDM-P	ILEI TOI COK_EXKA							
🗅 Assign Filters										
Assign Entity Type		- · · ·			-	n Filters				
Assign Entity Type	Filter	Description	Filter Type		General	Filter Parameter		Manual Filter	r Parameter	Filter Class
		OIF-Filter for CUR_EXRA	Explicit Compl			5 II DRF CUR				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 additonal configuration example below.

Transaction FILE:

Dialog Structure						
Assignment of Physical Paths to Logical Path Logical File Name Definition, Cross-Client		Create a logical file path				
Definition of Variables		Logical File	Path	Name		
Syntax Group Definition		MDG_DATA_A	ARCHIVE	Master Data Archive		
Assignment of Operating System to Syntax Group		MDG_DATA_IMPORT		Master Data Import		
,						
ialog Structure	Logical path	MDG_DATA				
5	Logical path					
Logical File Path Definition • 🖕 Assignment of Physical Paths to Logical Path			_IMPORT			
Logical File Path Definition Signment of Physical Paths to Logical Path Logical File Name Definition, Cross-Client	Name	ITR MDG	L_IMPORT Data Import File Path			
Logical File Path Definition Signment of Physical Paths to Logical Path Logical File Name Definition, Cross-Client	Name Syntax group	UNIX	L_IMPORT Data Import File Path Unix compatible			
Dialog Structure	Name	UNIX	L_IMPORT Data Import File Path			

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

Dialog Structure	Logical path	MDG_DAT	MDG_DATA_ARCHIVE		
Logical File Path Definition	Name				
🛚 🧧 Assignment of Physical Paths to Logical Path					
Logical File Name Definition, Cross-Client Definition of Variables	Syntax group	UNIX	Unix compatible		
Syntax Group Definition	Physical path	/usr/sap/	/IH1/MDG_DATA_ARCHIVE/ <filename></filename>		
Assignment of Operating System to Syntax Group					

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



Dialog Structure					
Logical File Path Definition					
🛚 🧮 Assignment of Physical Paths to Logical Path	Logic	cal file		Name	
🛚 🚾 Logical File Name Definition, Cross-Client					
Definition of Variables	MDG_	DATA_ARCHIVE		Master Data Archive	
Syntax Group Definition	MDG	MDG_DATA_IMPORT		Master Data Import	
Syntax Gloup Definition	_	_			
Dialog Structure		Log. File	MDG_DAT	A_ARCHIVE	
Dialog Structure		Log. File		A_ARCHIVE	
Dialog Structure	ath			-	

- Logical File Name Definition, Cross-Client Definition of Variable
- 🔹 📒 Syntax Group Definit Assignment of Opera •

es tion	Applicat.area	BIN	
ating System to Syntax Group	Logical path	MDG_DATA_ARCHIVE	
	Log File	MDG DATA IMPORT	

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

Using transaction MDGIMG configure the usage of these directories:

~	Master Data Governance, Central Governance
~	General Settings
>	Technical Settings for Master Data
>	Data Modeling
>	UI Modeling
>	Data Quality and Search
>	Process Modeling
>	Data Replication
>	Value Mapping
>	Key Mapping
~	Data Transfer
	🕆 🗟 😡 _Define Object Types for Data Transfer
	🕆 🗟 😔 Define File Source and Archive Directories for Data Transfer

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



Dialog Structure	Archive Path for Object types			
 Data Transfer Directories 	Obj. Type Archive Directory			
 In 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
- Check Interlocking
- Define Edition
- Creation of a Product Hierarchy Name
- Definition of Product Hierarchy Levels (e.g. "Branch" or "Division")
- Maintenance of number ranges

Verify the product hierarchy usage: 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. In order to obtain more information about the configuration of a Product Hierarchy contact: support@itego.de - Subject: "RDM Product Hierarchy".

Check Interlocking: Execute transaction MDGIMG: Process Modelling -> Hierarchies -> Define Scope for Changes -> Data Model 11 -> 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.

For the Edition definition start the NetWeaver Business Client and select Analysis of Editions -> Create. Use Edition Type "Product Hierarchy (I1_PRODH)" and define the Data Replication Timing "On Final Approval of Change Request" (Immediately Distribute Change Requests).

Example:

* Edition:	PRDH2021
Description:	Product Hierarchy 2021
* Type:	Product Hierarchy \checkmark
* Valid-From Date:	01.01.2021
Immediately Distribute Change Requests:	\checkmark
Comment:	Product Hierarchy 2021



Note: parallel editions are currently not supported

The creation of the Product Hierarchy Name is done through a change request process. Start the NetWeaver Business Client 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.

Define Levels for the Product Hierarchy using transaction SM30: Select /ITR/PRODH_LVL and define the levels according to your usage scenario. E.g.:

- 1 Branch
- 2 Division

In the standard delivery the first two levels are represented by Product Hierarchy Nodes and supplemented by Level 3 represented by Product Hierarchy Sub Nodes which do not have to be configured in customizing view /ITR/PRODH_LVL.

The maintenance of number ranges starts with definition of the "From No." and the "To Number" for each level of the Product Hierarchy Nodes and the 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 (internal numbering):

- No: 01; From No: 00000000000000001; To No: 0000000000049999
- No: 02; From No: 00000000000000000; To No: 00000000000099999
- No: 03; From No: 0000000000000000; To No: 0000000000999999

The number ranges have to be maintained on the MDG and on the SAP business application system.

On the SAP business application system execute transaction SA38 and choose report /ITR/MDG_PRODH_EXPORT to extract the product hierarchy using the defined number ranges which have been configured for MDG RDM. 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. 00001 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. 50000 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. 00100000 for the initial load)

For a standard three level hierarchy e.g. also the following entries might be a good example:

- 1: 00000000000000000
- 2: 00000000000100000
- 3: 000000100000000

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

- 1:000000000000000000
- 2:000000000000000000
- 3: 00000000000100000
- 4: 000000010000000
- 5: 00001000000000000

Note: The number of characters which can be used for <StartFrom> for Level 1-n is defined by structure PRODHS in your local SAP business system. In the standard delivery this is defined as a character field with length 18, divided into 5, 5 and 8 characters for level 1-3. This is why in the example above the levels to be configured are defined by 5, 5 and 8 characters (unlike the number ranges in the MDG RDM system, which represent the same numbers but do have 18 characters for each level.



After the extraction the files have to be loaded to the MDG RDM system using File Upload. This should be done in the following sequence for a standard product hierarchy:

- Node Level 1 attributes and texts
- Node Level 2 attributes and texts
- Sub Node 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 sub 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:

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

* Variant:	PH_NO_ATT
Name:	Product Hrchy Node attributes
	d.Hier. Level

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

* Varia	ant: PH_NO_TXT
Nan	ne: Product Hrchy Node texts
Enti	ity Type / Attribute
- ~	Header
	Data Row
	Product Hierarchy Node
	Language Key
	Description (long text)

- Node Level 2 attributes and texts
 - Same Entity Type and variants as for Level 1 Nodes
- Sub Node attributes and texts (PH_SN_ATT and PH_SN_TXT)
 - Entity Type: Product Hierarchy Sub Node



o Attributes: Product Hierarchy Sub Node, External Number

* Variant: PH_SN_ATT	,
Name: Product Hrchy Subnode attributes	
Entity Type / Attribute	
Header	
Data Row	
Product Hierarchy Sub Node	
External Number	

• Texts: Product Hierarchy Sub Node, Language Key, Description (long text)

* Variant: PH_SN_TXT	
Name: Product Hrchy Subnode texts	
Entity Type / Attribute	
Header	
Data Row	
Product Hierarchy Sub Node	
Language Key	
Description (long text)	

- Hierarchy assignments
 - Entity Type: Product Hierarchy Node
 - Higher-level Node: Product Hierarchy Name, Product Hierarchy Node
 - o Lower-level Node: Product Hierarchy Node, Product Hierarchy Sub Node
- For an "all-in-one upload" you can use this variant definition:

* Variant:	PH_NO_HRY	C
Name:	Product Hrchy	/ Node assignments
Entity Type	/ Attribute	
Header		
📃 🗸 Data Ro	w	
🔰 🗸 Highe	er-level Node	
Pro	oduct Hierarchy Name	2
Pro	oduct Hierarchy Node	
✓ Lowe	r-level Node	
Pro	oduct Hierarchy Node	•
Pro Pro	oduct Hierarchy Sub N	Vode



- Level 1 hierarchy assignments of level 1 nodes to the product hierarchy name
 - Entity Type: Product Hierarchy Node
 - o Higher-level Node: Product Hierarchy Name
 - Lower-level Node: Product Hierarchy Node
- Level 2 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
- Level 3 hierarchy assignments of sub nodes to level 2 nodes
 - Entity Type: Product Hierarchy Node
 - Higher-level Node: Product Hierarchy Name, Product Hierarchy Node
 - o Lower-level Node: Product Hierarchy Node, Product Hierarchy Sub 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>

Load the following files:

- Node Level 1 attributes and texts
 - Attributes: PRODH_EXTRACT_1_*
 - Texts: PRODH_EXTRACT_1_T*
- Node Level 2 attributes and texts
 - Attributes: PRODH_EXTRACT_2_*
 - Texts: PRODH_EXTRACT_2_T*
- Sub Node attributes and texts
 - Attributes: PRODH_EXTRACT_3_*
 - Texts: PRODH_EXTRACT_3_T*
- Level 1 hierarchy assignments of level 1 nodes to the product hierarchy name)
 Assignments: PRODH_EXTRACT_1_H*
- Level 2 hierarchy assignments of level 2 nodes to level 1 nodes
 - Assignments: PRODH_EXTRACT_2_H*



- Level 3 hierarchy assignments of sub nodes to level 2 nodes
 - Assignments: PRODH_EXTRACT_3_H*

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

In a last step the number range status for each number range has to be defined. Use transaction SNRO (Object: /ITR/PRODH) and choose "Interval Editing" for the maintenance process:

Example:

- No: 01; NR Status: 2; assuming 2 loaded level 1 nodes (1-2)
- No: 02; NR Status: 50004; assuming 5 loaded level 2 nodes (50000 50004)
- No: 03; NR Status: 100010; assuming 11 loaded sub nodes (100000 100010)

After this last step the maintenance of the product hierarchy can start and the next node and sub nodes create will get the next defined MDG number from the number range and the next external number defined by the external numbers based on the external numbers loaded from the SAP business system and the hierarchy assignments selected.

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:

(1)

Edit Intervals: Classification, Object /ITR/CLF

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

Characteristics:

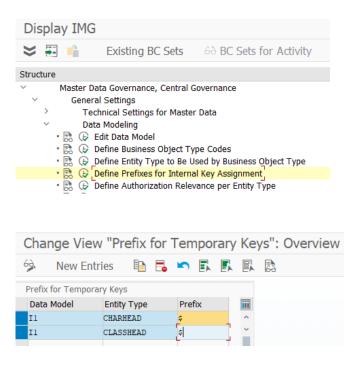
```
Edit Intervals: Characteristics, Object /ITR/CHAR
```

6g 📑

Number Range No.	From No.	To Number	NR Status	External
01	0000000001	9999999999	40	
	1			



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



3.13 Set Up Local Staging Areas

The configuration of the Local Staging Areas 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.



3.14 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".

3.15 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
- /ITR/ITEGO_MDG_RDH_BUSINES_<n>S
- /ITR/ITEGO_MDG_RDH_EXPERT_<n>S
- Display Functions in the Sender-System
- Business Functions in the Sender-System Expert Functions in the Sender-System
- Expert runctions in the Sender Syst

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

Result
3 msec
1 msec
1 msec
1 msec
1 msec

5.1.2 Define Logical System and Check or Create Business System

System IH1 100, transaction SALE:

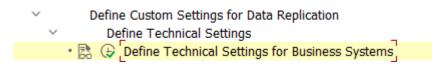


Dis	splay I	IMG		
≽	F	1	Existing BC Sets	60 BC Sets for Activity
Struc	ture			
× & ×	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Basic Se IDoc Inbor Perfo Activ Proce	Administration und SOAP for IDoc: Reg orm Automatic Workflov ate event receiver linka ess Code for Inbound II cal Systems	jister Service v Customizing ge for IDoc inbound
			efine Logical System ssign Logical System to	Client

Change \	/iew "Log	gica	l Sy	ster	ms"	: Ov	/erv	iew
🤣 New	Entries	Ð	5			R		23
Logical System	ns							
Log.System	Name							iii
1H1100	H1 Client 10	0 - S/	'4 MD	G				^
IH1400	IH1 Client 40	0 - S/	4 ERF	>				~
IR1200	IR1 Client 20	0 - S/	4 ERF	>				

🖙 Prompt for workbe	nch request	×
View Maintenance:	V_TBDLS]
Request	TH1K900292	
Short Description	Data Replication to IR1200	
	📀 👘 📄 Own Requests	8

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





Change View "Defin	e Business Syste	ms": Overview			
🤌 New Entries 🗈 🔁 🍢 🕄 🕵 🕵					
Dialog Structure Define Business Systems					
🗠 🔚 Define Business System	Business System	Logical System	RFC Destination		
V Define Bus. Systems	IH1100	IH1100			
• 📒 Define Bus. Syste –	IH1400	IH1400	IH1400		
	IR1200	IR1200	IR1200		

5.1.3 Check or Create BAdI for determination of local system name

System IH1 100, transaction DRFIMG:

\sim	Define Custom Settings for Data Replication
\sim	Define Technical Settings

- B G 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
O Enhancement Spot
BAdI Name MDG_IDM_GET_LCL_SYSTEM
ôô Display 🖍 Change 🗋 Create

Enhancement Spot MDG_ID_MAPPING_API Display

+ + 🦻 🕄 📫	🍰 🥕 🔍 📫 🕹	E 🖪 🚺	D∕_ 22		
Enhancement Spot Attributes Enhancer	MDG_ID_MAPPING_A n. Implementations Technic		Active n. Spot Element Definitions		
BAdI Definitions	Description	Implementation BAdI Definition			Ð
	S Determination of local system	1 implementat	ion found		
Interface Implementations		Active	Enhancement Implementation	Badi Implementation	
- mpiementations	L	,	ZIT_LOCLSYS	ZIT_LOCSYS	



Class Builder: [Display C	Class ZI	T_CL_LOC	SYS			
🔶 🔶 😫	i (ቆ 🥕	व 🤞 🚦	1.1		i	Local Definitions/Implementations
Class/Interface	ZIT_CL_LOC	CSYS	I	mplemen	ted / Active		
Properties Int	terfaces	Friends	Attributes	Method	s Event	ts	Types Aliases
Parameters 🖌 E	ceptions	Sourceco	ode 📫 🖷 📢		XDD	=	🖬 🙀 🖄 🔄 🗆 Filter
Method			Level		Visibility	м	Description
IF_MDG_IDM_GET_LCL_S	YSTEM~GET_	LOCAL_SYST	Instance	e Method	Public		Determination of local system ID

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.
```

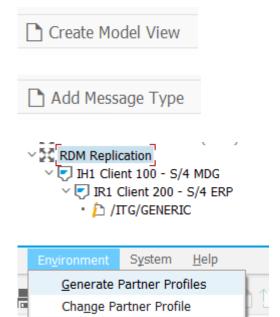
5.1.4 Define Distribution Model

Use transaction SALE (or BD64):



Structure
V 🔁 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
 B Convert Logical System Names in Application Tables
> Communication
Modelling and Implementing Business Processes
Global Organizational Units
• 🔀 😡 Maintain Distribution Model and Distribute Views
Configure Predefined ALE Business Processes

Create Model View and Add Message Type



RDM_REP IH1100 IR1200 RDM: generic message type



Generate Partner Pro	file
lodel View	RDM_REP to C
artner System	IR1200 0 to
heck Run	
Default Parameters for Partner Pr	
Postprocessing: Authorized Use	US User
Ty.	
ID	RDM_ADM_01 RDM Admin
Outbound	
Version	3 IDoc record types from Version 4.0 onwards
Pack. Size	100 IDocs
Output Mode	
 Pass IDoc immediately 	
O Collect and pass IDocs	
· ·	
Inbound	
Processing	
 Trigger immediately 	
 Trigger by background p 	rogram

Log fo	or Partner	Prof	ile Generation
Task 📩	System	Status	Result
Partner	System IH1100	00	System IH1100 already exists as partner
	System IR1200	00	System IR1200 already exists as partner
Port		00	Port A000000001 with RFC destination IR1200 was created
Outbound		040	No unique IDoc type found for message type /ITG/GENERIC . Check !
	System IR1200	00	Outbound parameters for message type /ITG/GENERIC /ITG/GENERIC02 created
		00	Outbound parameters for message type SYNCH SYNCHRON created

Check in transaction WE20:



Partner	Descri	Partner No.	IR1200 I	R1 Client 200 - S/4 ERP					
 Partner Profiles Partner Type AD Partner Type B Partner Type BP Partner Type GP Partner Type LI Partner Type LI Partner Type LS IH1100 IH1400 IR1200 Partner Type US 	Bank Benefits pri Business Pr Customer Vendor Logical syst IH1 Client 1 IH1 Client 1 IH1 Client 2 User (first 2	Partn.Type Post Proce Ty. Agent Lang.	ų – J	.ogical system	<u> </u>				
		Outbound Partner R	Message type		Message v	Function	Test	Receiver I Pa	Basic type
			/ITG/GENERIC					A000000001 () 100	
			SYNCH					A000000001 0 100	SYNCHRON

BD64: Distribute Model View to receiver (IR1200)

	Distribution Model	Edit Goto	En <u>v</u> ironm	ient S <u>y</u> stem	<u>H</u> elp	
		<u>D</u> elete			- î	1100
<u> </u>		<u>S</u> ystem	View	Ctrl+Shift+F2	+ 1	
D	Display Distrib	<u>F</u> ilter D	isplay	Ctrl+F3		
6	à 🗑 🕄 🛅			Ctrl+Shift+F11 Ctrl+Shift+F12	'iew	Filter Model Displ
Dis	stribution Model	M <u>o</u> del (Check		Descr	iption/Technical Name
\sim	🚹 Model Views	Model \	/iew			create
	> ALE_SYNC	Add <u>B</u> A	PI		0	Cre <u>a</u> te Using Template
	> FICADISP30	Add M <u>e</u>	ssage Type		0	Сору
	 IH1-100400 CRM Scenarios 	D <u>i</u> splay,	/Edit Details	F2	D	istribute
	Customizing Di	C <u>a</u> ncel		F12	I	ransport
1	> 🔀 Example of MM			-		JR1
	> 🔀 Example of MM	contract dis	tribution (filte	-		
	 Example of MM Example of dist 	l contract dis tributing test	tribution (filte	-		JR2
	 Example of MM Example of dist HR <-> FI Scent 	l contract dis ributing test nario	tribution (filte	-	el) MM-PU QM-CO	JR2
	 Example of MM Example of dist HR <-> FI Scer Internet Scenar 	l contract dist tributing test nario rios	tribution (filte	-	el) MM-PU QM-CO	JR2 DNTR OUPLI
	 Example of MM Example of dist HR <-> FI Scent Internet Scenat Logistics Scenation 	l contract dis tributing test nario rios rios	tribution (filte settings	-	el) MM-PU QM-CO HRFIC	JR2 DNTR OUPLI NET
	 Example of MM Example of dist HR <-> FI Scent Internet Scenat Logistics Scenat Master Data Dist 	l contract dis tributing test nario rios rios s <u>tr</u> ibution (MI	tribution (filte settings	-	el) MM-PU QM-CO HRFIC INTER LOGIS	JR2 DNTR OUPLI NET
	 Example of MM Example of dist HR <-> FI Scent Internet Scenat Logistics Scenat Master Data Dist RDM Replication 	I contract dist tributing test nario rios trios stribution (MI n	tribution (filte settings DM)	-	el) MM-PU QM-CO HRFIC INTER LOGIS	JR2 DNTR OUPLI NET TICS ERDATA
	 Example of MM Example of dist HR <-> FI Scent Internet Scenat Logistics Scenat Master Data Dist 	I contract dist tributing test nario rios trios stribution (MI n	tribution (filte settings DM)	-	el) MM-PU QM-CO HRFIC INTER LOGIS MAST	JR2 DNTR OUPLI NET TICS ERDATA REP



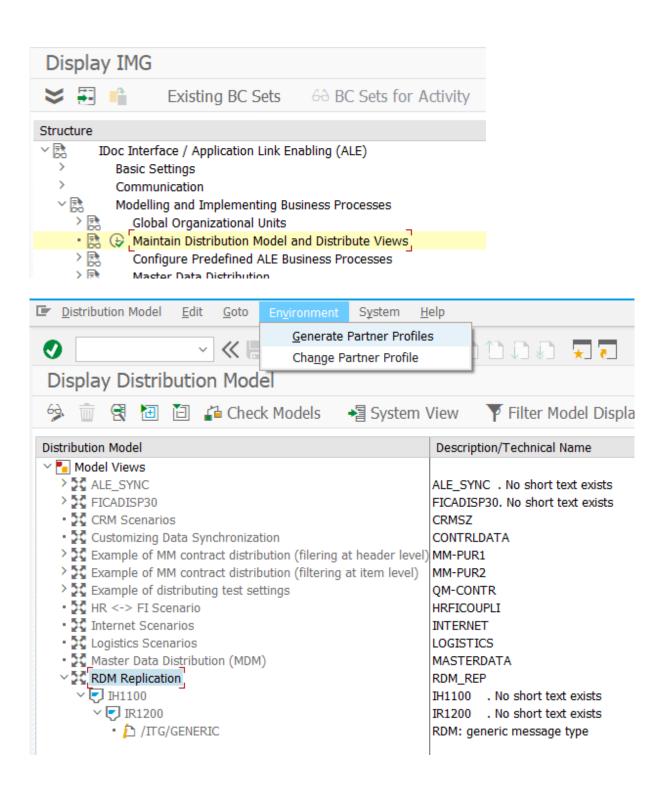
Log of Model View Distribution	n	
🕄 🚹 🗈 📅 🚺		
Distribution of Model View R	DM_R	REP
Step	Status	Details
Target system IR1200		Model view RDM_REP was created

Log On to system IR1200 and execute transaction SALE:

Check Logical Systems

Display	IMG
😆 🐺 🛛	Existing BC Sets 60 BC Sets for Activity
Structure	
)。	 be Interface / Application Link Enabling (ALE) Basic Settings Doc 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
🤣 Nev	vEntries 🔋 🖪 🏹 🕄 🕵 🕵
Logical Syste	ems
Log.System	Name 🔟
IH1100	IH1 Client 100 - MDG
IR1200	IR1 Client 200 - S/4 ERP







RDM_REP to
IH110 Q to ₫
US User
RDM_ADM_01 RDM_ADM_01
3 IDoc record types from Version 4.0 onwards
100 IDocs
n

Check in WE20



Partner Two Partner Two Partner Two Partner Two Partner Type U Partner Two Partner Two Partner Two Partner Type U Partner Two Partner Two Partner Two Partner Profiles: Inbound Parameters Partner Tre Partner Tre Partner No. IH1100 IH1 Client 100 - MDG Partner Tre Partner Role Partner Tre Partner Tre Pa	🗅 🤌 🚑 🗅 💼 🕑 🏠		1								
Berling Type 0 Berling		Descri									
Partner Type 97 Render provide Type Render provide			Partn.Type	LS Log	gical system						
Partner Profiles: Inbound Parameters Partner No. THILDO HI Client 100 - MDG Partner Role Partner Profiles: Inbound Parameters Partner Role Process code Processing After Syntax Error Processing by Function Module Trigger by background program			Post Proce	essing: Valid Process	sors Classificatio	on 👔 🔿 E	3				
Agent Total Type IS Protect Type IS Pr	• 📙 Partner Type GP	Business Pa					-				
Induced Processing by Partner No. Image											
Pertner Type US User (feet Pertner R., Message type Message v., Function Pertner R., Message type Pertner Role Message function Pertner Processing After Syntax Error Processing by Function Module Trigger by background program											
Partner Profiles: Inbound Parameters											
Partner Profiles: Inbound Parameters											
Partner Profiles: Inbound Parameters											
Partner Profiles: Inbound Parameters			Partner R	Message type		Message v	Function			I Pa.	Basic type
Partner Profiles: Inbound Parameters											
Partner Profiles: Inbound Parameters Partner No. THILDO H1 Client 100 - MDG Partner Role Message Type Message Type Inbound options Post Processing: Valid Processors Telephony Process code Inbound options Post Processing After Syntax Error Processing by Function Module Trigger by background program											
Partner Profiles: Inbound Parameters											
Partner Profiles: Inbound Parameters Partner No. Inbound options Post Processing: Valid Processors Telephony Process code Processing by Function Module Processing by Function Module Trigger by background program											
Partner Profiles: Inbound Parameters > > Partner No. Inbound Information Test Inbound options Post Processing: Valid Processors Test Processing After Syntax Error Processing by Function Module Trigger by background program											
Partner Profiles: Inbound Parameters Image: State of the											
Partner Profiles: Inbound Parameters Imbound Imbound Parameters Imbound Imbou			< >								
Partner Profiles: Inbound Parameters Imbound Imbound Parameters Imbound Imbou			GARE								
Partner Ro. IHII00 IH1 Client 100 - MDG Partner Role Message Type //TG/GENERIC Message Type //ITG/GENERIC Message Type //ITG/GENERIC Message Code Message function Post Processing: Valid Processors Telephony Process code //ITG/GENERIC_IN_BUNDLE // Cancel Processing After Syntax Error Processing by Function Module // Trigger by background program											
Partner Profiles: Inbound Parameters Partner No. Partner No. Inbound options Post Processing: Valid Processors Telephony Process code Inbound options Post Processing: Valid Processors Telephony Processing by Function Module											
Partner Profiles: Inbound Parameters Partner No. Italico IH1 Client 100 - MDG Partner Role Message Type /ITG/GENERIC Message function Test Inbound options Post Processing: Valid Processors Telephony Process code //ITG/GENERIC_IN_BUNDLE Processing by Function Module Trigger by background program				Magaza Tran		Magazza	Function	Tect	Drocore		
Partn. Type LS Partner Role </th <th>Partner Profiles</th> <th>s: Inbou</th> <th>Partner R</th> <th>/ITG/GENERIC</th> <th></th> <th>Message v</th> <th>Function</th> <th></th> <th></th> <th></th> <th>BUNDLE</th>	Partner Profiles	s: Inbou	Partner R	/ITG/GENERIC		Message v	Function				BUNDLE
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		s: Inbour	Partner R	/ITG/GENERIC		Message v	Function				BUNDLE
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	<i>6</i> 3		nd Para)ITG/GENERIC		Message v	Function				BUNDLE
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	62. Partner No.	IH1100	nd Para)ITG/GENERIC		Message v	Function				BUNDLE
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	Partner No. Partn.Type	IH1100	nd Para)ITG/GENERIC		Message v	Function				SUNDLE
Message function Test Inbound options Post Processing: Valid Processors Telephony Process code //ITG/GENERIC_IN_BUNDLE Image: Cancel Processing After Syntax Error Processing by Function Module Image: Cancel Program Image: Cancel Program	Partner No. Partn.Type	IH1100	nd Para)ITG/GENERIC		Message v	Function				BUNDLE
Inbound options Post Processing: Valid Processors Telephony Process code //ITG/GENERIC_IN_BUNDLE Image: Cancel Processing After Syntax Error Processing by Function Module Image: Cancel Program	Partner No. Partn.Type Partner Role	IH1100 LS	nd Para)ITG/GENERIC		Message v	Function				JUNDLE
Inbound options Post Processing: Valid Processors Telephony Process code //ITG/GENERIC_IN_BUNDLE Image: Cancel Processing After Syntax Error Processing by Function Module Image: Cancel Program	Partner No. Partn.Type Partner Role	IH1100 LS	nd Para)ITG/GENERIC		Message v	Function				JUNDLE
Process code //ITG/GENERIC_IN_BUNDLE	Partner No. Partn.Type Partner Role Message Type Message code	IH1100 LS	Partner R nd Para IH1 (ERIC	Ing/GENERIC		Message v	Function				SUNDLE
Process code //ITG/GENERIC_IN_BUNDLE	Partner No. Partn.Type Partner Role Message Type Message code	IH1100 LS	Partner R nd Para IH1 (ERIC	Ing/GENERIC		Message v	Function				JUNDLE
Cancel Processing After Syntax Error Processing by Function Module Trigger by background program	Partner No. Partn.Type Partner Role Message Type Message code Message function	IH1100 LS /ITG/GENN	Partner R nd Para IH1 (ERIC	Ing/GENERIC Ameters Client 100 - M	1DG		Function				JUNDLE
Cancel Processing After Syntax Error Processing by Function Module Trigger by background program	Partner No. Partn.Type Partner Role Message Type Message code Message function	IH1100 LS /ITG/GENN	Partner R nd Para IH1 (ERIC	Ing/GENERIC Ameters Client 100 - M	1DG		Function				JUNDLE
Processing by Function Module OTrigger by background program	Partner No. Partn.Type Partner Role Message Type Message code Message function	IH1100 LS /ITG/GENM	Partner R nd Para IH1 (ERIC T Cessing: Va	Interformer ameters Client 100 - M est alid Processo	1DG		Function				JUNDLE
O Trigger by background program	Partner No. Partn.Type Partner Role Message Type Message code Message function Inbound options Process code	IH1100 LS /ITG/GENN	Partner R nd Para IH1 (ERIC IT Cesssing: Va IC_IN_BUN	Interformer ameters Client 100 - M est alid Processo	1DG		Function				JUNDLE
O Trigger by background program	Partner No. Partn.Type Partner Role Message Type Message code Message function Inbound options Process code	IH1100 LS /ITG/GENN	Partner R nd Para IH1 (ERIC IT Cesssing: Va IC_IN_BUN	Interformer ameters Client 100 - M est alid Processo	1DG		Function				JUNDLE
	6 Partner No. Partn.Type Partner Role Image: Message Type Message code Message function Inbound options Process code Image: Cancel Processing Aff	IH1100 LS /ITG/GENM Post Prod /ITG/GENER: ter Syntax Er	Partner R nd Para IH1 (ERIC IT Cesssing: Va IC_IN_BUN	Interformer ameters Client 100 - M est alid Processo	1DG		Function				JUNDLE
- Contraction -	Partner No. Partn.Type Partner Role Message Type Message code Message function Inbound options Process code Cancel Processing Aff Processing by Function	IH1100 LS /ITG/GENI Post Prod /ITG/GENER: ter Syntax Er	Partner R nd Para IH1 (ERIC IT Cessing: Va IC_IN_BUN Tor	Interformer ameters Client 100 - M est alid Processo	1DG		Function				JUNDLE

System IH1 100: Check DRFIMG:



Display IM	G	
😆 👬 📫	Existing BC Sets	60 BC Sets for Activity
Structure		
• 🗟 Ove > Defi > D	eplication rall Information ne Custom Settings for Dat refine Technical Settings	
• 🗟 🤃	 Define Technical Settings BAdI: Determination of Logistication Models 	

Change View "Define Business Systems": Ov	verview							
🦻 New Entries 🔋 🖥 🖍 🕼 🛱								
Dialog Structure	Define Business Syste	ms						
✓	Business System	Logical System	RFC Destination	Logical File Path	Download to PS	Unicode	Unicode Code Page	Disabled for Replication
	ER9CLNT003	ER9CLNT003					0	
Define Bus. Systems, BOs Execution Channel Execution								
	Structure Define Business Systems effne Business Systems Business System Logical System RFC Destination Logical File Path Download to PS Unicode Unicode Code Page Disabled for Replication Define Business Systems, BOS ER9CLNT003 ER9CLNT003 0 0 0 0							
	IH1400	IH1400	IH1400				0	
	IR1200	IR1200	IR1200				0	

Nothing else to be configured:

Dialog Structure	Business System
Define Business Systems	-
🗸 🔚 Define Bus. Systems, BOs	Define Bus. Systems, BOs
• 📙 Define Bus. Systems, BOs, Communication Channel	BO Type Description

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

Dialog Structure	Replication Model	RDM	Reference Data Management
Define Replication Model	Outbound Implementation	/ITR/BLART	RDM - Outbound Implementation for GSBER (Busin. Areas)
Assign Outbound Implementation	· · · · · · · · · · · · · · · · · · ·		
🛚 🦐 AssignTarget Systems for Repl. Model /Outb.Impl	And Transford Containing for t	and Madel (0	with Mercel
• 📙 Assign Outbound Parameter	AssignTarget Systems for F	kepi. Model /O	uto.impi
Assign Download Variants	Business System		
• 🔚 Assign Language	IH1400	_	
	IR1200	Þ	
	-		



Dialog Structure	Re	eplication Model	RDM	Reference Data Management
🗠 📙 Define Replication Model				
— Market M Artik Market M Artik Market		Assign Outbound Im	plementat	ion
📙 AssignTarget Systems for Repl. Model /Outb.Impl	1.0	Outbound Impleme		Description
🛚 📒 Assign Outbound Parameter			intation	· · ·
Assign Download Variants		/ITR/BLART		RDM - Outbound Implementation for
• 📙 Assign Language		/ITR/CCODE		RDM - Outbound Implementation for
		/ITR/CURRC		RDM - Outbound Implementation for

Data Replication Model needs to be active:

Dialog Structure					🎢 Activate 🏾 🎢 De	activate
🗸 📹 Define Replication Mod						
 Assign Outbound Im AssignTarget Sys 	Define Replication Mo	odel				
 Assign arget sys Assign Outbound 	Replication Model	Description	Log Days	Data Model	Active	iii
 Assign Download 	\$S4HTOC4C\$	Business Partner Replication to C4C	50			~
• 📥 Assign Language	BAMMAST_RM	BAM Master Replication	1			`
	CHAR	Characteristics	15	I1		
	RDM	Reference Data Management	15	I1	\checkmark	

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



62 / 🗑 / 🕤	Local	MYPROFILE_XXX	2	MYPROFILE
Detail				
Profile Name:	MYPROFILE_XXX			
Profile Type:	Local			
Profile Version:	2			
Security Se	ettings Transpor	t Settings Administration Information		
Transpor	rt Guarantee			
Transp	oort Level Secur	ity		
Non	e (http)			
⊖ ssl	(https)			

Or https based on your security requirements.

Provider Systems

Define provider systems for usage in business scenario configuration

Provider System	s					
Create Create S	Special \checkmark	Import				
Actions	Туре	Provider System Name		Description	Creation Type	State
68 / 🗑 / २ डि	Local	PROVIDER_SYSTEM_B_XXX		Provider System for System B	Provider System	Active
General	WSDL Ac	IBC References	Business Applications	Administrative Information		
Provider S	System					
Name:*		PROVIDER_SYSTEM_B.				
Description:		Provider System for Syst	em B			
Profile Name	e: *	MYPROFILE_XXX				
Profile Versi	on:	1	Update Version			



General	WSDL Access	IBC References	Business Applications	Administrative Informa	ition	
Service	s Registry					
Use S	ervices Registry					
Servic	es Registry:	<primary re<="" service="" td=""><td>gistry> 🗸</td><td></td><td></td><td></td></primary>	gistry> 🗸			
SLD Id	lentifier:	PROVIDER_SYSTEM	1_B_XXX			
Logical	System					
Logical sy	vstem:					
WSIL S	ervice					
✓ Use V	VSIL					
Access	s Url for WSIL:	http://ir1r3.itego.de:	53801/sap/bc/srt/wsil?sap-c	lient=200		
General	WSDL Access IBC R	eferences Business Applicat	ions Administrative Information			
IBC ID				Туре	Name	System
3D38EACD59	B11EED87AABECE382FD	96F2		CLIENT	IR1/200	IR1/200
General	WSDL Access IBC R	eferences Business Applic	ations Administrative Information			
Name			Description		Business Application ID	
sap.com/Busin	essApplicationABAP				3D38EACD59B11EED87AAB	ECE382FD6F2

5.2.2 Receiver: Service Administration: Business Context

System IR1 200: transaction SOAMANAGER:

Service Administration

Identifiable Business Context

Display and maintain Identifiable Business Contexts (IBCs)

Actions	Name	Туре	Description	Valid fro	Valid f	Valid to	Valid to	Application Component
60 0 1	IR1/200	CLIENT	Automatically generated for Business Application ID3D38	08.06.2012	15:09:38	31.12.9999	23:59:59	BC-ESI-WS-ABA-CFG



Identifiable Business Context Reference

Display and maintain Identifiable Business Contexts references (IBC reference)

Actions	Name	Туре	Type Description	System	Description	Application	Is Assign
68 🖉 🛅	IR1/200	CLIENT	Client	IR1/200	Automatically generated for	BC-ESI-WS-AB	\checkmark

5.2.3 Receiver: Service Administration: Local Integration Scenario

System IR1 200: transaction SOAMANAGER:

Service Administration

Local Integration Scenario Configuration

Configure multiple service definitions and service groups supporting change management

1010	Local M	IYSCENARIO_B_)	xxx	Scenario B		Active	
Detail							
Scenario Name	MYSCE	NARIO_B_XXX					
Scenario Type:	Local						
Service D	efinitions	Service Group	Administrative Information				
		-	and a second block of the second	E.t.	Description	Assistant Des Glass	
Internal Na	ame	E	xternal Name	External Namespace	Description	Assigned Profiles	Is Configured

5.2.4 Receiver: Services Registry: Published Systems and Objects

System IR1 200: transaction SOAMANAGER:

Services Registry



Publishing Systems

Display and maintain Publishing Systems in Services Registry

Actions	Name	Name and Client	Logical Key	Host Name	Publishing System Type	Application	Publ.	Orig.
68 🖉 🗑	IR1	IR1(200)	200.SystemName.IR1.SystemNumber.0090257000.SystemHome.ir1r3#ABAP	ir1r3	ABAP	\checkmark	<	\checkmark

Published Service Definitions

Display and maintain published Service Definitions in Services Registry

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

Published Bindings

Display and maintain published Bindings in Services Registry

Actions	Binding Name	Service Namespace	Internal Service Name	External Service Name	Publishing Sys
68 🖉 🗑	BINDINGITRRDM_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 ir:
68 🖉 🗑	BINDINGITRRDM_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 ir:
63 🖉 🛅	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 ir:

Details of Service Definition: /ITR/RDM_WS_SEND_OBJECT			
Overview Configurations Classifications Details			
Define Services and Bindings			
Create Service	publish Displa	ay as List]
Service/Binding	Actions	State	Description
□ ~ B330F036C1921EDD87C2B0AEB7C14D2B		Active	
BINDINGITRRDM_WS_SEND_OBJECT_MYPROFILE_XXX_L	68 / 🗑 🌘 📾		
B330F036C1921EED87C87B02F24F87E6		Active	
BINDINGITRRDM_WS_SEND_OBJECT_MYPROFILE_XXX_L	68 / 🗉 🙆 📾		
□ ✓ Z_IR1200_WS_SEND_OBJECT		Active	Z_IR1200_WS_SEND_OBJECT
Z_IR1200_WS_SEND_OBJECT	68 / 🗑 🌘 📾		

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

Published IBCs

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



Actions	Receiver Name	Receiver Type	Description	Publishing System
68 / 🗑	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	Create Profile Import							
Actions	s Type Name Version Description State							
68 / 🗑 / 🕤	Local	DEFAULT_PROFILE	1	Lokales Standardprofil	Active			
68 / 🗑 / 🕤	Local	MYPROFILE_XXX	1	MYPROFILE	Active			
Detail								
Profile Type: Profile Version: Security Security Security	Profile Name: MYPROFILE_XXX							
Transport Level Security								
 Non 	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 S	Create Create Special							
Actions	Actions Type Provider System Name Description Creation Type Sta							
68 / 🗑 / 🌂 🔄	Local	PROVIDER_SYSTEM_A_XXX	Provider System for System A	Provider System	Active			



Edit Save Deactivate Cancel General WSDL Access IBC References B	usiness 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			
	siness Applications	Administrative Information	
Services Registry			
Use Services Registry			
Services Registry: <a>Primary Service Registry			
SLD Identifier: PROVIDER_SYSTEM_A_X	XX		
Logical System			
Logical system:			
WSIL Service			
Vise WSIL			
Access Url for WSIL: http://ir1r3.itego.de:53801	/sap/bc/srt/wsil?sap-cl	lient=200	
Format of WSIL URL of ABA	AP backend: http:// <ho< td=""><td>stname>:<port>/sap/bc/srt/wsil?sap-cl</port></td><td>ient=<client></client></td></ho<>	stname>: <port>/sap/bc/srt/wsil?sap-cl</port>	ient= <client></client>
Edit Save Deactivate Cancel General WSDL Access IBC References Business Applications	Administrative Information	on	
IBC ID	Туре	Name	System
3D38EACD59B11EED87AABECE382FD6F2	CLIENT	PROVIDER_SYSTEM_A_XXX	PROVIDER_SYSTEM_A_XXX
Edit Save Deactivate Cancel General WSDL Access IBC References Business Applications	Administrative Information		
	Description		Business Application ID
sap.com/BusinessApplicationABAP	occupion		3D38EACD59B11EED87AABECE382FD6F2

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	Туре	Description	Valid from	Valid fr	Valid to D	Valid to Ti	Application Component
6ð 🖉 🔟	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	Туре	Type Description	System	Description	Application Co	Is Assigned
68 / 🗑	IH1/100	CLIENT	Client	IH1/100		BC-ESI-WS-ABA	
63 🖉 🗑	PROVIDER_SYSTEM_A_XXX	CLIENT		PROVIDER_SYSTEM_A_XXX	Automatically generated for Bu	BC-ESI-WS-ABA	\checkmark

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

68 / 🗑 / 🔄	Local	MYSCENARIO_A_XXX		Consumer Scenario	Active		
Detail							
Scenario Nam	e: MYS	CENARIO_A_XXX					
Scenario Type	: Loca	l					
Service D	Definition	s Service Groups Administrative Information					
Internal N			Description		Provider IBC Reference	Communication Protocol	Is Configured
/ITR/RDM	WS SE	ND			CLIENT / PROVIDER_SYST	Use WS Protocol	\checkmark



5.2.8 Sender: Service Administration: Logon Data

System IH1 100: transaction SOAMANAGER:



Logon Data Management

Define logon data used by business scenario configuration

Maintenance	Assignments						
Logon Data							
Create							
Actions	Туре	Logon Data Name	Description				
68 / / 🗊	Local	MYUSER_XXX	Logon User				
Logon Dat	a Detail for 'MYUSER_	_XXX'					
Credentials Administrative Information							
Authentication Met:* User/Password or X.509							

Provide User and Password

Maintenance Assignments										
Logon Data Assignments										
[] Create										
Actions	Туре	Consumer Type	Consumer Object	Provider IBC Reference	Provider Interface Name	Provider Interface Namespace	Logon Data Name			
63 🖉 🗑	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 v is v All v Image: Comparison of the second									
Search Result									
Scaler Result									
Internal Name	Туре		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		nt:sap:soap:functions:mc-style		
- /ITR/RDM_WS_SEND_OBJECT			/ITR/RDM_WS_SEND_OBJECT		urn:sap-com:document:sap:soap:functions:mc-style		nt:sap:soap:functions:mc-style		
L /ITR/RDM_WS_SEND	Service Group		/ITR/RDM_WS_SEND u		urn.sap.com.service.group		roup		
Internal Name	Actions	Binding/Log.Port		Туре	:	State	Creation Type		
/ITR/CO_WS_CONS_ITR_RDM_WS_S	68 / / 🗑 🗸	6045BD8B74AC1E	ED87C8A5555CAAC320	Logical Po	rt /	Active	Created based on profile MYPROFILE_XX	X/1/Local	
	68 / / 🖻 🗸	Z_PORT_TO_IR120	00	Logical Po	rt /	Active	Manually created		
/ITR/RDM_WS_GET_OBJECT	68 / / 🖻 🗸			Binding		Active	Manually created		
/ITR/RDM_WS_GET_PLANT	63 / / 🖻 🗸	Z_RDM_GET_PLAN	IT	Binding		Active	Manually created		
/ITR/RDM_WS_SEND_OBJECT	68 / / 🖻 🗸	Z_RDM_SEND_OB.	JECT	Binding	,	Active	Manually created		

Logical port created based on exported WSDL from receiver system.

Overview Config	urations Details							
Define Logical P	orts							
Create 🗸 Set L	og.Port Default Activate Deactivate	Delete						
Create V Set L	og.Port Default Activate Deactivate D	Delete State	Logical Port is Default	Description	Creation Type			
	Logical Port		Logical Port is Default	Description Provider System: PROVIDER_SYSTEM_A_XXX				

5.2.10 Sender: Services Registry: Published Systems and Objects

System IH1 100: transaction SOAMANAGER:

Services Registry

Publishing Systems

Display and maintain Publishing Systems in Services Registry

Actions	Name	Name and Client	Logical Key	Host Name	Publishing System Type	Application	Publ.	Orig.
67 69 🗍	IH1	IH1(100)	100.SystemName.IH1.SystemNumber.0090257000.SystemHome.ih1r3#ABAP	ih1r3	ABAP	1	v	1



Published Service Definitions

Display and maintain published Service Definitions in Services Registry

Actions	Internal Name	External Namespace	External Name	State	Description	Publishing System
68 / 🗑 🖾	/ITR/RDM_WS_GET_OBJECT	urn:sap-com:document:sap:soap:functions:mc-style	/ITR/RDM_WS_GET_OBJECT	Configured		IH1(100) on ih1r3
63 🖉 🗑 66	/ITR/RDM_WS_GET_PLANT	urn:sap-com:document:sap:soap:functions:mc-style	/ITR/RDM_WS_GET_PLANT	Configured		IH1(100) on ih1r3
63 🖉 🗑 66	/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

G∂ / m Z_RDM_GET_PLANT um:sap-com:document:sap:soap:functions:mc-style //TR/RDM_WS_GET_PLANT //TR/RDM_WS_GET_PLANT IH1(100) on ih1r3	Actions	Binding Name	Service Namespace	Internal Service Name	External Service Name	Publishing System
	63 🖉 🛅	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
☐ 63 // 前 Z_RDM_SEND_OBJECT urr:sap-com:document:sap:soap:functions:mc-style //TR/RDM_WS_SEND_OBJECT //TR/RDM_WS_SEND_OBJECT IH1(100) on ih1r3	67 🖉 🔞	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
	63 🖉 🛅	Z_RDM_SEND_OBJECT	urn:sap-com:document:sap:soap:functions:mc-style	/ITR/RDM_WS_SEND_OBJECT	/ITR/RDM_WS_SEND_OBJECT	IH1(100) on ih1r3

Published IBCs

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

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