Reference Data Management 2407

for SAP Master Data Governance

Configuration



Version: 29.10.2024 RDM 2407 SP0



Content

1	I	Introduction 4									
2	F	Prerequisites									
3	C	Conf	igura	ration for Reference Data Governance							
	3.1		vate Business Functions	5							
	3.2		Acti	vate Data Model I1	5						
	3.3		Acti	vate Business Configuration Sets	6						
	3	3.3.1	-	SAP MDG: BC Sets	7						
	3	3.3.2		SAP Business Systems: BC Sets	9						
	3.4		Con	figure User Roles and Authorizations	10						
	3	3.4.1	-	Reference Data Governance – MDG	10						
	3	3.4.2		Reference Data Governance – SAP Business System	10						
	3.5		Сор	y Rule Based Workflows from Client 000	10						
	3	3.5.1		Introduction	11						
	3	3.5.2		Automated Copy	12						
	3	3.5.3	}	Manual Copy	16						
	3.6		Adjı	ust Governance Scope	17						
	3	3.6.1	-	SAP MDG: Adjust Global Scope	17						
	3	3.6.2	-	SAP Business System: Adjust Local Scope	17						
	3.7		Adju	ust User Interfaces	18						
	3.8		Con	figure Rule Based Workflow	19						
	3.9		Set	Up Data Replication	19						
	3	3.9.1		Data Replication Framework settings	19						
	3	3.9.2	-	Data Replication using Application Link Enabling (ALE)	21						
	3	3.9.3		Data Replication using WebServices	23						
	3	3.9.4	ļ	Key Mapping	26						
	3	3.9.5	,	Value Mapping	28						
	3.1	0	Set	Up Data Transfer	31						
	3.1	1	Con	figure Product Hierarchy	34						
	3.1	2	Con	figure Classification	40						

Itego

	3.13	Set	Up Local Staging Areas	41
	3.14	Solu	tion Manager Integration	42
	3.15	Proj	ect Specific Enhancements	42
4	Con	figura	ation for Reference Data Harmonization	43
	4.1	Acti	vate Business Configuration Sets	43
	4.1.	1	SAP MDG: BC Sets	43
	4.2	Con	figure User Roles and Authorizations	43
	4.2.	1	Reference Data Harmonization – Sender	43
	4.2.	2	Reference Data Harmonization – Receiver	43
5	Con	figura	ation Examples	44
	5.1	Data	a Replication based on SAP ALE	44
	5.1.	1	Prerequisite: RFC Destination	44
	5.1.	2	Define Logical System and Check or Create Business System	44
	5.1.	3	Check or Create BAdI for determination of local system name	46
	5.1.	4	Define Distribution Model	47
	5.2	Data	a Replication based on Webservices	56
	5.2.	1	Receiver: Technical Administration: Profiles and Provider Systems	56
	5.2.	2	Receiver: Service Administration: Business Context	58
	5.2.	3	Receiver: Service Administration: Local Integration Scenario	59
	5.2.	4	Receiver: Services Registry: Published Systems and Objects	59
	5.2.	5	Sender: Technical Administration: Profiles and Provider Systems	61
	5.2.	6	Sender: Service Administration: Business Context	62
	5.2.	7	Sender: Service Administration: Local Integration Scenario	63
	5.2.	8	Sender: Service Administration: Logon Data	64
	5.2.	9	Sender: Service Administration: Web Service	64
	5.2.	10	Sender: Services Registry: Published Systems and Objects	65



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").

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

3.2 Activate Data Model I1

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

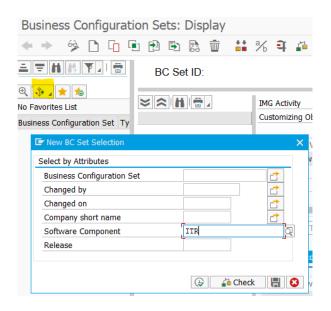


3.3 Activate Business Configuration Sets

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).

Note: Starting with RDM 2407 the latest available BC Set includes the complete content from earlier versions. This means that for the installation of RDM 2407 only the latest available BC Set (highest number <n>) needs to be activated. Please also be aware that new BC Sets (for the Fiori Launchpad) have been delivered which need to be activated as well.



Important Note for Upgrades: For the upgrade to RDM 2407 and the activation of new features, please make sure that "Do Not Overwrite Default Values" (see below) is used. If in doubt, please check with <u>support@itego.de</u> for instructions.

Ov	erwrite Data
0	Overwrite All Data
0	Do Not Overwrite Default Values

3.3.1 SAP MDG: BC Sets

3.3.1.1 Software Component ITR

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

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

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 hav	ve started the BC Set activation	on If you continue, new data
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)
		Expert Mode
Activation Languages:	German	Amount data and a data
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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

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_LSA_ADMIN
- /ITR/MDG_STAGING_<n>
- /ITR/MDG_LSA_SNAPSHOT_MNG_<n>

Local Staging Area Menu Local Staging Area Administration Local Staging Area 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
- By Oefine Service Names for Rule-Based Workflow
🔤 🥵 Configure Rule-Based Workflow
Business Add-Ins

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 workbench request has to be created with transaction SE09 or SE10. After creating the request run transaction SA38 and start report /ITR/BRFPLUS_IMPORT:



→ ABAP Editor: Initial Screen	
Program Edit Goto Utilities Environment System Help	
🛛 🖉 🔄 🚽 👘 👘 👘 👘 👘 👘 👘 👘 👘	• • • 🕱 🗖
📗 🖆 🌴 😳 🚭 🛅 🛉 🛅 🖬 🚱 🚱 Debugging 🛛 😳 With Variant 😤 '	Variants
Program /ITR/BRFPLUS_IMPORT Create	
Subobjects	
O Source Code	
• Variants	
○ Attributes	
○ Text elements	
○ Documentation	
🖧 Display 🦉 Change	



The report offers the following selection criteria:

	_			
<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			- D
		🕒 🕅 🔀 🏝 🏷 🗘 🏖 🛒 🔊	@	
RDM: Import of BRFPlus-	-Applications/Catalogs			1
Value '' does not exist XML has been imported :		port request ID \$X2P00000000000448		•
	Switch to Other Catalog (2) (2) Catalog Structure H Status V USND_SSW_CATA_IMRP1S02 V (3) BRFp_Appl	Constant: CNST_PROC_DT_SN_IMRP1S02 Save) Short Simulation Context Overview) Start Simulation	More V	
Cant literare	C'U USMD_IMRPISO2 C'U TRIGGER_FUNCTION USMD_FN_CALL_DT_R C'U RULE_SET C RS_IMRPISO2 C'U DT_SERVICE_NAME E: CNST_PROC_DT_SN_II C'U DECISION_TABLE III DT_NON_USER_AGT_C III DT_USER_AGT_GRP_II III DT_SINGLE_VAL_IMRP	* Element Type: Text Result Data Object: PROC_DT_SERVICE_MANE Value:	~	 2



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	Customizing Task	
Properties	Objects I	Documentation		
Key for obje	ct R3TR TD/	AT FDT0000 (FDT/	/BRFplus: Central Transport Object for C-Tables)	
Language: -	- 1	IMG Activity: -		
		16 78 5		221 / 224
Table Na	me	Table Keys		
FDT_RLS	T_0001	1003497F65	B23B11ED89EF316251425139F000000*	
FDT_RLS	T_1000	1003497 F6 5	B23B11ED89EF316251425139F000000*	
FDT_RLS	T_1100	1003497F65	B23B11ED89EF316251425139F000000*	
FDT_RLS	T_1200	1003497F65	B23B11ED89EF316251425139F000000*	

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 use transaction /ITR/RDM_LSA_FIELDS which maintains view /ITR/LSA_TABS_FV. Every attribute which is not within this scope definition will not be overwritten when data is activated on the business system.



3.7 Adjust User Interfaces

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

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

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

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

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

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

$\mathbf{\vee}$		Master Data Governance, Central Governance
	×	General Settings
	>	Technical Settings for Master Data
	>	Data Modeling
	>	UI Modeling
	\sim	Data Quality and Search
		 Search and Duplicate Check
		 Search and Duplicate Check B (Define Search Applications
		2 2

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": Overvier	W					
🤣 New Entries 🗈 🖥 🖬 🖡							
Dialog Structure Vie Define Replication Model					🎢 Activate	🌾 Dead	ctivate
 Assign Outbound Implementation AssignTarget Systems for Repl. Model / Assign Outbound Parameter 	Define Replication Model	Description	Log Days	Data Model	Active		
 Assign Outbound Farameter 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 I	implementation": Ove	erview		
🦻 New Entries 🛯 📑 🖛 🖡 [
Dialog Structure	Replication Model RDM	Reference Data Management		
Assign Outbound Implementation	Assign Outbound Implement	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.	.	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

~ D	ata Replication
• 🔁	Overall Information
>	Define Custom Settings for Data Replication
~	Enhance Default Settings for Outbound Implementations
• 🗟	😔 Define Parameters
• 🗟	😔 Define Filter Objects
>	Define Business Objects and Object Identifiers
• 🗟	Define Service Operations Available for Replication

- ▶ ⊕ Define Outbound Implementations
 ▶ ⊕ Define Outbound Interface Models

Object Type	Outbound	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

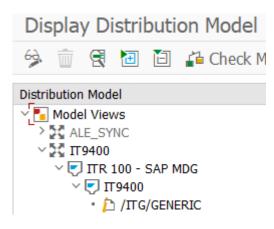
Note: You do not have to change the outbound implementation classes for other objects. They follow a generic approach even if the classes do not have a "_GEN" suffix.

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 parn	ntrs.					
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):

✓ 2 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 StrangeRate.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	Ρ	Process code
	CHRMAS				OÞ	CHRM
	CLSMAS				OÞ	CLSM
	EXCHANGE_RATE				OÞ	BAPP

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



Display IMG					
😆 🛐 📫 🛛 Existing BC Sets	60 BC Sets				
Structure					
 ✓ Data Replication ◆ Overall Information ✓ Define Custom Settings for D > Define Technical Settings ● ♦ Oefine Replication Models ● ♦ ♦ Define Business Object Set 					
Change View "Define Replication Model"					
🤌 New Entries 🖺 🖥 🖬 🗊 🗊 🕼	BC Set: Change Field Value	25 🖏			
Dialog Structure Define Replication Model Assign Outbound Implementation AssignTarget Systems for Repl. Model /Outb	fine Replication Model		<i>*</i>	Activate 🎾 Deacti	
Assign Outbound Parameter	Replication Model Description	Log Days Da a Management 15 II	ta Model A	lctive ✓	
Change View "Assign Outbound Impl	ementation": Overvi	_			
9 New Entries 🗈 📮 ∽ 💽 🕵 Dialog Structure		_	nt		
6 New Entries Image:	BC Set: Change Fie	d Values	nt		
 New Entries New Entr	BC Set: Change Fie	d Values 🗟	nt		
⁶ New Entries ⁶ New Entries ¹ Define Replication Model	BC Set: Change Fie Replication Model RDM Assign Outbound Implement Outbound Implementation	d Values 🚯 Reference Data Manageme ation Description	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 Fie Replication Model RDM Assign Outbound Implement Outbound Implementation /ITR/CHAR	d Values Reference Data Manageme ation Description Outbound Implementation for Cha	Sequence	Replication via IDo	oc
 New Entries New Entr	BC Set: Change Fie Replication Model RDM Assign Outbound Implement Outbound Implementation /ITR/CHAR /ITR/CLASS	d Values Reference Data Manageme ation Description Outbound Implementation for Cha Outbound Implementation for Cla	Sequence	Replication via IDo Replication via IDo	oc oc
 New Entries New Entr	BC Set: Change Fie Replication Model RDM Assign Outbound Implement Outbound Implementation /ITR/CHAR /ITR/CLASS /ITR/CURRC	d Values Reference Data Management ation Description Outbound Implementation for Cla RDM - Outbound Implementation	Sequence ara ss for	Replication via IDo Replication via IDo Replication via IDo	oc oc oc
 New Entries New Entr	BC Set: Change Fie Replication Model RDM Assign Outbound Implement Outbound Implementation /ITR/CHAR /ITR/CLASS	d Values Reference Data Manageme ation Description Outbound Implementation for Cha Outbound Implementation for Cla	Sequence ara ss for for	Replication via IDo Replication via IDo	oc oc oc oc

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



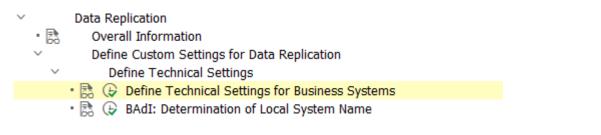
• Pull (object-specific): /ITR/RDM_WS_GET_PLANT

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	23
Lo	gical Syster	ms					
	.og.System						iii
R	DM_WEBSER	Webservice					^
							~

Transaction DRFIMG: Define Technical Settings and Replication Models



tructure	Define Business Syste	ms						
fine Business Systems	Business System	Logical System	RFC Destination	Logical File Path	Download to PS	Unicode	Unicode Code Page	Disabled for Replicatio
Define Bus. Systems, BOs Define Bus. Systems, BOs, Communication Chann	RDM_WEBSER	RDM_WEBSER	ব				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 /IT 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	ı						
Selection Criteria							
Bus. Obj. Type	RDM: Company Co	es	~				
Object ID Type	I_COMPCODE						
Business System							
ID Value							
Selected Objects							
🕄 I 🚊 \Xi 🚹	Μ Υ Ι Σ Ι	ē/z 🖌 🛛 膏	(i) 🖌 🗗 🖌	🗄 🚹 🚺			
*		ID ID Value	оп	Description	Bus. Sy		Mapping Group ID
3497F65B23B11E	DCB2E0607019971A	5 0001	I_COMPCODE	CompanyCode	ITR100	3497F65B23B118	EDCB2E0607019979AA5
	DCB2E0607019975A	_		CompanyCode		3497F65B23B11E	EDCB2E0607019979AA5
	CB2E065A900D5DAI		-	CompanyCode		3497F65B23B11E	EDCB2E065A900D65A
3497F65B23B11E	DCB2E065A900D61A	A T401	-	CompanyCode		3497F65B23B11E	EDCB2E065A900D65A
3497F65B23B11E	DCBFD380240D00C7	33 GD01	-	CompanyCode		3497F65B23B11E	EDCBFD380240D0167B3
3497F65B23B11E	DCBFD380240D0127	33 GD99	I_COMPCODE	CompanyCode	ITR400	3497F65B23B11E	EDCBFD380240D0167B3
	Care Obiest						
Mapping Groups of	an Object						
ସ I ≞ 〒 M	👫 🍸 🖌 Σ 🖌	/2 🖌 📑	@ 4 🖻 4 🗄	🇄 🚹 👔			
*	Object	ID ID Value	OIT	Description	Bus. Sy	Bus. Obj. Type	Description
3497F65B23B11E	DCB2E0607019971A	5 0001	I_COMPCODE	CompanyCode	ITR100	I_COMPCODE	RDM: Company Codes
3497F65B23B11E	DCB2E0607019975A	5 4001	I_COMPCODE	CompanyCode	ITR400	I_COMPCODE	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.
 Image of the state of the stat	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	98 12		
Doc display	Additional	Short Technica	I Information
🗸 📔 IDoc 000000000041975		Direction	1 Outbox
• 📄 Control Rec.		Current Status	03 00
V 🚾 Data records	Total number	Basic type	/ITG/GENERIC02
✓ ITG/HEADER ITG/POSITIONS	Segment 000(Segment 000(Extension	
 I G/POSITIONS I G/POSITIONS 	Segment 0000		/ITG/GENERIC
 Image: Image: Ima	Segment 0000		ITR400
ITG/POSITIONS	Segment 000(Farmer No.	LS
 ITG/POSITIONS 	Segment 000(Partn.Type	
 ITG/POSITIONS 	Segment 000(Port	A00000001
• 📄 /ITG/POSITIONS	Segment 000(
• 📄 /ITG/POSITIONS	Segment 0000	Content of Sel	ected Segment
 ITG/POSITIONS 	Segment 0000	Fld Name	Fld Cont.
 ITG/POSITIONS 	Segment 000(MSGFN	004
 ITG/POSITIONS ITG/POSITIONS 	Segment 000(Segment 000(DATA	1000000049 00401KGM9999
	Segment 0000		
✓ ☐ /ITG/HEADER	Segment 0000		
• ☐ /ITG/POSITIONS	Segment 0000		

Please add the filter objects manually

Dialog Structure Dialog Efine Filter Objects Dialog Assign Filters	Filter Object	/ITR/FKBIF RI	DM - Filter for FKE	BER OIF						
Assign Entity Type		Assign Filters								
	Filter	Description	Filter Type		General Filte	r Parameter	Manual Filter	r Parameter	Filter Class	
	80	OIF-Filter for FKBER	Implicit Fil	ter 🗸					CL_MDG_O	IF_DRF_FILTER
				~						
ialog Structure Define Filter Objects Sign Filters	Filter Object	/ITR/PLAIF RD	M - Filter for PLAI	NT OIF						
Assign Entity Type						Assign Filter	s			
	Filter	Description		Filter Type		General Filter	Parameter N	Ianual Filter P	arameter F	ilter Class
	80	OIF-Filter for PLANT		Implicit F	ilter ~				<u>c</u>	CL_MDG_OIF_DRF_FILTER
					×					
Dialog Structure										
Define Filter Objects	Filter Object	/ITR/CUR_E RDM - F	ILLER FOR CUR_EXRA	1						
						n Filters				
Assign Filters					-					
Assign Filters	Fiter	Description	Filter Type		-	Filter Paramete	r	Manual Filter	r Parameter	Filter Class



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				
🗠 🚾 Logical File Path Definition				
 Assignment of Physical Paths to Logical Path Logical File Name Definition, Cross-Client 		Create a log	jical 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 G	roup	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 Dialog Structure Dialog File Path Definition Dialog File Path Definition, Cross-Client Definition of Variables Syntax Group Definition	Name	UNIX	L_IMPORT Data Import File Path	

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

Dialog Structure	Logical path	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		
V 🔲 Logical File Path Definition		
Assignment of Physical Paths to Logical Path	Logical file	Name
Logical File Name Definition, Cross-Client	MDG DATA ARCHIVE	Master Data Archive
Definition of Variables		
• 📙 Syntax Group Definition	MDG_DATA_IMPORT	Master Data Import
Dialog Structure	Log. File	MDG_DATA_ARCHIVE
🗸 📒 Logical File Path Definition	Name	Master Data Archive
• Assignment of Physical Paths to Logical Path	Physical file	<u> </u>
• 🔚 Logical File Name Definition Cross-Client	ritysicarnie	

- Logical File Name Definition, Cross-Client Definition of Variables Syntax Group Definition
- Data format BIN Applicat.area • Assignment of Operating System to Syntax Group Logical path MDG_DATA_ARCHIVE

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		
Definition of Variables	Data format	BIN
🛚 📙 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 🗸
* 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)

3	I 📈 🖻 🕻	ă 🖌 l 🗋	55	≞ ₹	H M	🍸 🖌 l 🏛
🖡 Leve	el No StartFr	om				
1	1					
2	50000					
3	100000					

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

- 1:000000000000000000
- 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: 0000100000000000

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	

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

* Variant: PH_SN_	TXT C
Name: Product	Hrchy Subnode texts
Entity Type / A	Attribute
🗌 🗸 Header	
📃 🗸 Data Row	
Product	Hierarchy Sub Node
Langua;	ge Key
Descript	tion (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	
📃 🗸 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:

Edit Intervals: Classification, Object /ITR/CLF

6g 📑		
Number Range No.	From No.	

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

Characteristics:

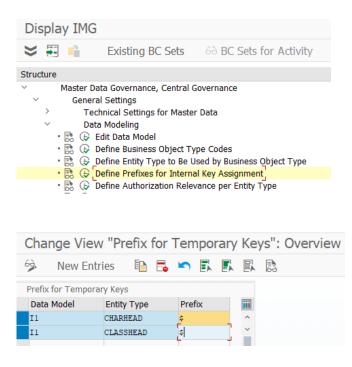
```
Edit Intervals: Characteristics, Object /ITR/CHAR
```

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 Destinat	tion IR1200
Remote Logo	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

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

5.1.2 Define Logical System and Check or Create Business System

System IH1 100, transaction SALE:

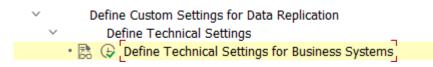


Dis	splay I	IMG		
≽	F	1	Existing BC Sets	60 BC Sets for Activity
Struc	ture			
× & ×	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Basic Se IDoc Inbor Perfo Activ Proce	Administration und SOAP for IDoc: Reg orm Automatic Workflov ate event receiver linka ess Code for Inbound II cal Systems	jister Service v Customizing 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								
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 workbench 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 "Define Business Systems": Overview							
🤣 New Entries 暗 🖥 🖍 🗊 🕼 🕼							
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 ⊕ Define Technical Settings for Business Systems
 B ⊕ BAdI: Determination of Local System Name

Or use transaction SE18, BAdI Name: MDG_IDM_GET_LCL_SYSTEM

BAdI Builder: Initial Screen for Definitions						
🖆 📢 💼 ն 🕸 🚺						
O Enhancement Spot						
BAdI Name MDG_IDM_GET_LCL_SYSTEM						
ôô Display 🧪 Change 🎦 Create						

Enhancement Spot MDG_ID_MAPPING_API Display

🔶 🔶 🤌 📬	🚑 🎢 🔍 🐇 🕹		°∕n ≗ ≗				
Enhancement Spot MDG_ID_MAPPING_API Active Attributes Enhancem. Implementations Technical Details Enh. Spot Element Definitions							
Implementations BAdI Definitions Description BAdI Definition							
✓ MDG_IDM_GET_LCL_SYS	Image: Solution of Solution > Solution ✓ MDG_IDM_GET_LCL_SYS Determination of local system 1 implementation found						
Interface Implementations		Active	Enhancement Implementation	Badi Implementation			
	-	<u> </u>	ZIT_LOCLSYS	ZIT_LOCSYS			



Class Builder:	Display Cla	ss ZIT_CL_L	OCSYS			
🔶 🔶 😫	📫 🔘 ず	🥕 🖣 🤞	A 1		i	Local Definitions/Implementations
Class/Interface	ZIT_CL_LOCSYS	5	Implemen	ted / Active		
Properties Int	terfaces Fri	ends Attribute	s Method	s Event	ts	Types Aliases
Parameters 🦌 Ex	ceptions [🗐 S	Sourcecode 📫 🖷		XDD	=	🖬 🏘 🖄 🔄 🗆 Filter
Method		Leve	el	Visibility	м	Description
IF_MDG_IDM_GET_LCL_S	YSTEM~GET_LOC	AL_SYSTEM Inst	ance 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.
```

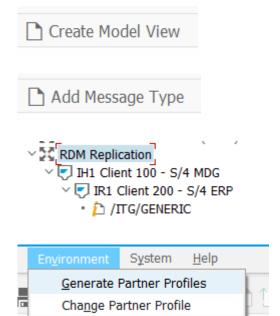
5.1.4 Define Distribution Model

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
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	Profile
€	
lodel View	RDM_REP to IR1200 Q to
artner System	IR1200 Q to 📑
heck Run	
Default Parameters for Partr	ner Profile
Postprocessing: Authorize	d Users
Ту.	US User
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 immediat	tely
O Collect and pass ID	ocs
Inbound	
Processing	
Trigger immediatel	
O Trigger by backgroup	unu program

Log for Partner Profile 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> < > <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				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	Add <u>B</u> API			Cre <u>a</u> te Using Template		
	> FICADISP30	Add M <u>e</u>	Add M <u>e</u> ssage Type			Сору		
	 IH1-100400 CRM Scenarios 	D <u>i</u> splay,	Display/Edit Details F2			D <u>i</u> stribute		
	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		



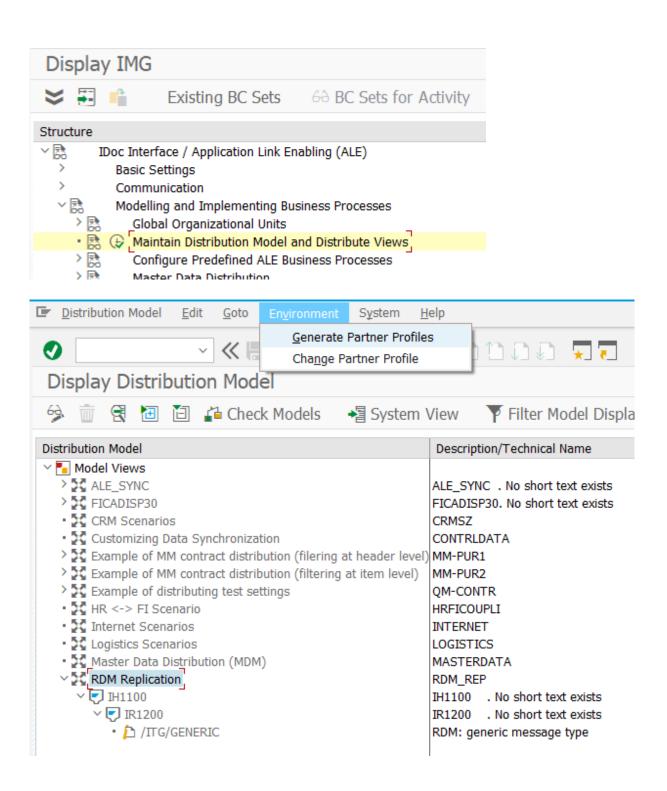
Log of Model View Distribution								
9 f 🖻 👕 🚺								
Distribution of Model View RDM_REP								
Step Status Details								
Target system IR1200 Model view RDM_REP was created								

Log On to system IR1200 and execute transaction SALE:

Check Logical Systems

Display	IMG
😆 🐺 🗖	Existing BC Sets 60 BC Sets for Activity
Structure	
· 昂· · 昂· · 昂· · 昂· · 周· · 周·	c Interface / Application Link Enabling (ALE) Basic Settings IDoc Administration Inbound SOAP for IDoc: Register Service Perform Automatic Workflow Customizing Activate event receiver linkage for IDoc inbound Process Code for Inbound IDoc Logical Systems
	Define Logical System Assign Logical System to Client
Change	View "Logical Systems": Overview
🤣 New	ıEntries 🗈 🔁 🛋 🕼 🕼
Logical Syste	ms
Log.System	Name
IH1100	H1 Client 100 - MDG
1R1200	IR1 Client 200 - S/4 ERP







Generate Partner Profile	
¢	
Model View	RDM_REP to
Partner System	IH110 Q to
Check Run	
Default Parameters for Partner Profile	
Postprocessing: Authorized Users	
Ту.	US User
ID	RDM_ADM_01 RDM_ADM_01
Outbound	
Version	3 IDoc record types from Version 4.0 onwards
Pack. Size	100 IDocs
Output Mode	
 Pass IDoc immediately 	
Collect and pass IDocs	
Inbound	
Processing	
 Trigger immediately 	
 Trigger by background progra 	Im

Check in WE20



🗅 🤌 ቆ 🗅 前 🖻 🏠								
artner 📁 Partner Profiles	Descri	Partner No. Partn.Type	IH1100 IH1 Client 100 - LS Logical system	MDG				
 Partner Type AD 	Bank	rarantype	20 Logical system					
 Partner Type B Partner Type BP 	Benefits pro	Post Proc	essing: Valid Processors Cla	ssification 🗎 🔇 🔸 🕻	2			
 Partner Type GP Partner Type KU 	Business Pa Customer	ту.	US 💽 User					
• 📄 Partner Type LI 🗸 🔄 Partner Type LS	Vendor Logical syst	Agent	RDM_ADM_01 RDM_ADM_01					
- <u>IH1100</u>	IH1 Client 1	Lang.	EN English					
• 📙 Partner Type US	User (first :							
		Outbound						
			. Message type	Message	v Function	n Te	t Receiver	I Pa Basic
							1	
		Inbound						
Partner Profiles	s: Inbour	Partner R	. Message Type Эпгс/GENERIC ameters	Message v	Function		P Process o	code NERIC_IN_BUNDLE
Partner Profiles	s: Inbour	Partner R	/ITG/GENERIC	Message v	Function			
	5: Inbour	Partner R	/ITG/GENERIC	Message v	Function			
63. Partner No.		Partner R	JITG/GENERIC ameters	Message v	Function			
6) Partner No. Partn.Type	IH1100	Partner R	JITG/GENERIC ameters	Message v	Function			
Partner No. Partn.Type Partner Role	IH1100 LS	Partner R	JITG/GENERIC ameters	Message v	Function			
6≩ Partner No. Partn.Type Partner Role ፪ Message Type	IH1100	Partner R	JITG/GENERIC ameters	Message v	Function			
Partner No. Partn.Type Partner Role Message Type Message code	IH1100 LS		аmeters ameters Client 100 - MDG	Message v	Function			
Partner No. Partn.Type Partner Role	IH1100 LS		JITG/GENERIC ameters	Message v	Function			
Partner No. Partn.Type Partner Role Message Type Message code Message function	IH1100 LS /ITG/GENH	Partner R	Client 100 - MDG		Function			
Partner No. Partn.Type Partner Role Message Type Message code	IH1100 LS /ITG/GENH	Partner R	Client 100 - MDG	Message v	Function			
Partner No. Partn.Type Partner Role Message Type Message code Message function	IH1100 LS /ITG/GENH	Partner R A Parta IH1 (ERIC T Cessing: Va	Test		Function			
Partner No. Partn.Type Partner Role Message Type Message code Message function	IH1100 LS /ITG/GENH Post Proc	Partner R	Test		Function			
Gartner No. Partn.Type Partner Role Image: Message Type Message code Message function Inbound options Process code Image: Cancel Processing Afge	IH1100 LS /ITG/GENH Post Proc /ITG/GENER: ter Syntax Er	Partner R	Test		Function			
Partner No. Partn.Type Partner Role Message Type Message code Message function Inbound options Process code Cancel Processing Af Processing by Function	IH1100 LS /ITG/GENE Post Prod /ITG/GENER: ter Syntax Er	Partner R	Test		Function			
Gartner No. Partn.Type Partner Role Image: Message Type Message code Message function Inbound options Process code Image: Cancel Processing Afge	IH1100 LS /ITG/GENE Post Proc /ITG/GENER: ter Syntax Er Module und program	Partner R	Test		Function 1			

System IH1 100: Check DRFIMG:



Display IM	G					
😆 👬 📫	Existing BC Sets	60 BC Sets for Activity				
Structure						
 Data Replication Overall Information Define Custom Settings for Data Replication Define Technical Settings 						
• 🗟 🤃	 Define Technical Settings BAdI: Determination of Love Befine Replication Models 					

Change View "Define Business Systems": Overview								
🦻 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
Define Bus. Systems, BOs	ER9CLNT003	ER9CLNT003					0	
Define Bus. Systems, BOs, Communication Channel	ER9CLNT500	ER9CLNT500					0	
	IH1100	IH1100					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 would
- 📙 Assign Outbound Parameter	AssignTarget Systems for F	kepi. Model /O	uto.impi
• Assign Download Variants	Business System		
• 📙 Assign Language	IH1400		
	IR1200	-	
	L		



Dialog Structure	Re	eplication Model	RDM	Reference Data Management
🗠 📙 Define Replication Model				
— Market M Artik Market M Arket 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 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	ort Level Secur	ity		
None	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	Special \checkmark	Import				
Actions	Туре	Provider System Name		Description	Creation Type	State
68 / 🗑 / 🔌 🛐	Local	PROVIDER_SYSTEM_B_XXX		Provider System for System B	Provider System	Active
General	WSDL Ac	IBC References	Business Applications	Administrative Information		
Provider	System					
Name:*		PROVIDER_SYSTEM_B.				
Description:		Provider System for Syst	em B			
Profile Nam	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
63 / 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
68 🖉 🗑 🖾	/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	006	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	Import							
Actions	Туре	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		Settings Administration Information						
Transp	oort Level Security	/						
Non	e (http)							
SSL	(https)							

Or https based on your security requirements.

Provider Systems

Define provider systems for usage in business scenario configuration

Provider Systems	vrovider Systems								
Create Create S	Create Special V Import								
Actions	Туре	Provider System Name	Description	Creation Type	State				
68 / 🗑 / 🌂 🔄	Local	PROVIDER_SYSTEM_A_XXX	Provider System for System A	Provider System	Active				



Edit Save Deactivate Cancel General WSDL Access IBC References IBC	Business Applications	Administrative Information	
Provider System			
Name:* PROVIDER_SYSTEM_A			
Description: Provider System for System	۱A		
Profile Name:* MYPROFILE_XXX			
Profile Version: 1	Update Version		
Edit Save Deactivate Cancel General WSDL Access IBC References But	isings Applications	Administrative Information	
General WSDL Access IBC References Bu	isiness Applications	Auministrative miornation	
Use Services Registry			
Services Registry: <pre> <</pre>	>		
SLD Identifier: PROVIDER_SYSTEM_A_>	~~~		
Logical System			
Logical system:			
WSIL Service			
Use WSIL			
Access Url for WSIL: http://ir1r3.itego.de:5380	1/san/bc/srt/wsil2san-cli	ent-200	
			liont- colient
Format of WSIL ORL Of AB.	АР Баскена. пцр.//<поз	tname>: <port>/sap/bc/srt/wsil?sap-cl</port>	ient- <client></client>
Edit Save Deactivate Cancel			
General WSDL Access IBC References Business Applications	Administrative Information	n	
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		
Name	Description		Business Application ID
sap.com/BusinessApplicationABAP	e computer		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 / 18 / 19	Local	MYSCENARIO_A_XXX		Consumer Scenario	Active		
Detail							
Scenario Name	e: MYS	CENARIO_A_XXX					
Scenario Type:	Loca	L					
Service D	efinition	s Service Groups Administrative Information					
Internal N	ame		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'								
Credenti	Credentials Administrative Information									
Authentica	Authentication Met* User/Password or X.509									

Provide User and Password

Maintenance Assignments											
Logon Data Assignments											
Create								C			
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 Image: Contain the second s								
Search Ctear values Reset search criteria			-					
Scaler Result								
Internal Name	Туре		Name		Namespace			Desc
- /ITR/RDM_WS_GET_OBJECT	Service Definition		/ITR/RDM_WS_GET_OBJECT urr		urn:sap-com:document:sap:soap:functions:mc-style		nt: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	Service Definition		/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		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 / / 🖻 🗸	Z_RDM_GET_OBJE	CT	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	Delete State	Logical Port is Default	Description	Creation Type				
		State	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

Actions	Binding Name	Service Namespace	Internal Service Name	External Service Name	Publishing System
68 / 🗑 🗄	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
68 / 🗑 🕺	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
68 / 🗑	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