

# **Reference Data Management 2307**

## for SAP Master Data Governance

### **Configuration**



Version: 28.07.2023

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## 1 Introduction

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

### 3.1 Activate Business Functions

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

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


- MDG\_FOUNDATION
- MDG\_FOUNDATION\_2
- MDG\_FOUNDATION\_3
- MDG\_FOUNDATION\_4
- MDG\_FOUNDATION\_5
- MDG\_FOUNDATION\_6

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

- /ITR/FOUNDATION\_01

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

### 3.2 Activate Data Model I1

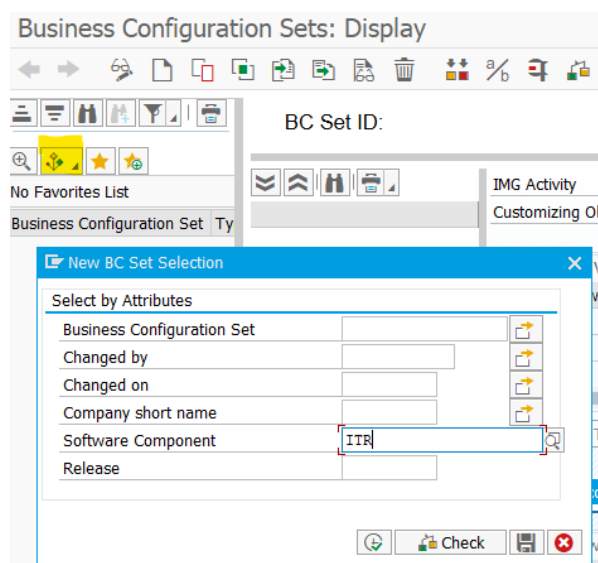
Check whether the data model I1 has been activated in transaction MDGIMG: General Settings -> Data Modeling -> Edit Data Model. If it has not been activated, select Data Model "I1" and click on  "Activate".

### 3.3 Activate Business Configuration Sets

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

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

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



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

#### 3.3.1 SAP MDG: BC Sets

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

##### 3.3.1.1 Software Component ITR

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

- /ITR/MDG\_RDM\_BASIC\_FRMWRK\_<n> MDG RDM Framework Basic Settings
- /ITR/MDG\_RDM\_BUSACT\_<n> MDG RDM Business Activities
- /ITR/MDG\_RDM\_DRF\_BUS\_ALT\_<n> MDG RDM Replication Business Alternative

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

- /ITR/MDG\_RDM\_CREQUEST\_<n> MDG RDM Change Request Types
- /ITR/MDG\_RDM\_WORKFLOW\_<n> MDG RDM Workflow

**Important Note:** These BC Sets deliver Step Types, Actions and Change Request Status that might already have been used in your system. These are:

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

Please make sure that you at least create a backup of the current settings and align them with the setting from the BC Sets after activation. In doubt **do not** activate these BC Sets.

For Data Transfer please activate these BC Sets:

- /ITR/MDG\_RDM\_DT\_<n> MDG RDM Data Transfer Settings

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

- /ITR/MDG\_RDM\_UPLOAD\_VAR\_<n> Upload Variants for RDM Objects

**Note:** In earlier versions of RDM the BC Set /ITR/MDG\_RDM\_BRF\_DRF\_<n> has been used to deliver templates for the configuration of the Data Replication. Do not activate these but review chapter 3.9 Set Up Data Replication for additional information.

### 3.3.1.2 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

## 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 Sets have 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:

- /ITR/MDG\_RDM\_SOL\_MAN\_<n> MDG RDM Solution Manager Integration

### 3.3.2.2 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 SAP Business system as a sender system for the synchronization or the consolidation of reference data):

- /ITR/RDH\_CONFIG\_GROUPS\_<n> RDH Configuration Groups

## 3.4 Configure User Roles and Authorizations

### 3.4.1 Reference Data Governance – MDG

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

- /ITR/ITEGO\_MDG\_RDM\_MENU\_<n> NWBC Menu
- /ITR/ITEGO\_MDG\_RDM\_DISP\_<n> Display Role
- /ITR/ITEGO\_MDG\_RDM\_REQ\_<n> Requester
- /ITR/ITEGO\_MDG\_RDM\_SPEC\_<n> Data Specialist
- /ITR/ITEGO\_MDG\_RDM\_STEW\_<n> Data Steward

These Requester, Data Specialist and Data Steward Roles are reused in the BRF Workflow definitions for the Change Requests described in section 3.8 "Configure Rule Based Workflow".



It is recommended to copy the roles to your own namespace and replace the roles in the Workflow definitions.

### 3.4.2 Reference Data Governance – SAP Business System

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

- /ITR/ITEGO\_LSA\_MENU Local Staging Area Menu
- /ITR/MDG\_STAGING\_MENU Local Staging Area NWBC Menu
- /ITR/MDG\_STAGING\_<n> Local Staging Area
- /ITR/MDG\_LSA\_ADMIN\_<n> Local Staging Area Administration
- /ITR/MDG\_LSA\_SNAPSHOT\_MNG\_<n> Snapshot Management

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

After the adjustment of the roles, assign your users to the roles and make sure that data model "11" 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

### 3.4.3 Reference Data Harmonization – Sender

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

- /ITR/ITEGO\_MDG\_RDH\_DISP\_<n>S Display Functions in the Send-System
- /ITR/ITEGO\_MDG\_RDH\_BUSINES\_<n>S Business Functions in the Send-System
- /ITR/ITEGO\_MDG\_RDH\_EXPERT\_<n>S Expert Functions in the Send-System

### 3.4.4 Reference Data Harmonization – Receiver

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

- /ITR/ITEGO\_MDG\_RDH\_DISP\_<n>E Display Functions in the Receiver-System
- /ITR/ITEGO\_MDG\_RDH\_BUSINES\_<n>E Business Functions in the Receiver-System
- /ITR/ITEGO\_MDG\_RDH\_EXPERT\_<n>E Expert Functions in the Receiver-System

### 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 from to your MDG Client, you need to execute the following steps:

1. **Create Transport:** Log into client 000 and create a customizing transport.
2. **Identify Application IDs:** In the Data Browser (transaction SE16), enter the table name "FDT\_ADMN\_0000". In the table-selection screen, search for the name(s) "DT\_SINGLE\_VAL\_I\*" and press execute. Then copy all APPLICATION\_IDs and close the transaction. Please set the maximum of hits to 1,000.  
Hint: you can use System->List->Save->Save and save the table as a "Text with Tabs" and import this file into a spreadsheet format (like e.g. Excel). Then copy all APPLICATION\_IDs.
3. **Transfer Applications to Transport:** Execute transaction SE38 and execute the report "FDT\_TRANS". In the Workbench/Customizing field enter the transport, you created in step 1. For the Object ID field, press on multiple selection and paste the copied APPLICATION\_IDs from step 3 into the "Single value" table (Hint: you can also save your list of APPLICATION\_IDs into a text file and import it by clicking "Import from Text File" in the "multiple selection" dialog box). Then select the "Transport Whole Application(s)" checkbox and execute the transaction. Close the program once it's done.
4. **Release Transport:** Execute transaction SE10 and release the transport, you created in step 1.
5. **Copy Applications to MDG client:** Log on to your MDG client and copy the transport (using transaction SCC1, including the tasks of the request) you just released in step 4 (Source Client: 000). Then check the same table as in step 2 for the copied data.

### 3.6 Adjust Governance Scope

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

#### 3.6.1 SAP MDG: Adjust Global Scope

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

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

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

### 3.6.2 SAP Business System: Adjust Local Scope

Based on the attributes which can be maintained globally on the SAP MDG Sender you can define specific scope adjustments on each SAP Receiver system. For this please maintain the individual scope in view /ITR/LSA\_TABS\_FV via transaction SM30. Every attribute which is not within this scope definition will not be overwritten when data is activated on the business system.

## 3.7 Adjust User Interfaces

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

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

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

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

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

## 3.8 Configure Rule Based Workflow

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

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

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

- /ITR/MDG\_RDM\_CREQUEST\_<n> MDG RDM Change Request Types
- /ITR/MDG\_RDM\_WORKFLOW\_<n> MDG RDM Workflow

### 3.9 Set Up Data Replication

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

#### 3.9.1 Data Replication Framework settings

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

Change View "Define Replication Model": Overview

Dialog Structure

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

Define Replication Model

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

Activate Deactivate

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

Change View "Assign Outbound Implementation": Overview

Dialog Structure

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

Replication Model: RDM Reference Data Management

Assign Outbound Implementation

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

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

Transaction: DRFIMG

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

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

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

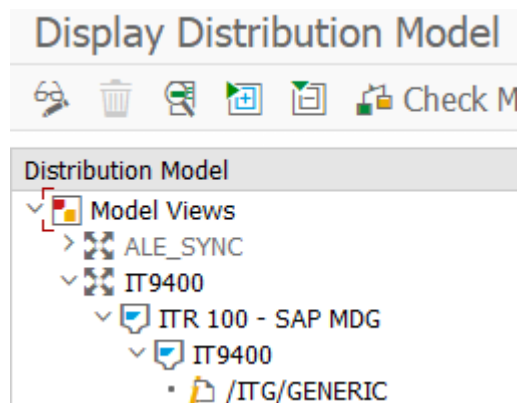
### 3.9.2 Data Replication using Application Link Enabling (ALE)

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 4.1 Data Replication based on SAP ALE.

BD64 (example)



WE20 (example from receiving system)

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

### 3.9.2.2 ALE Configuration for Object Specific Message Types

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

- Classification (Classes and Characteristics): CLSMAS and CHRMAS
- Exchange Rates: EXCHANGE\_RATE

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

Example from Transaction BD64 (Sender):

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

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

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

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

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

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

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

### Display IMG

Existing BC Sets

BC Sets

Structure

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

### Change View "Define Replication Model": Overview

New Entries

BC Set: Change Field Values

Activate

Deactivate



Dialog Structure

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

Define Replication Model

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

Change View "Assign Outbound Implementation": Overview

New Entries  BC Set: Change Field Values 

Dialog Structure

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

Replication Model: RDM Reference Data Management

Outbound Implementation	Description	Sequence	Communication Channel
/ITR/CHAR	Outbound Implementation for Chara...		Replication via IDoc
/ITR/CLASS	Outbound Implementation for Class		Replication via IDoc
/ITR/CURRC	RDM - Outbound Implementation for...		Replication via IDoc
/ITR/CUR_E	RDM - Outbound Implementation for...		Replication via IDoc
/ITR/DISMM	Outbound Implementation for MRP ...		Replication via IDoc

### 3.9.3 Data Replication using WebServices

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

The web services offer two functionalities:

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

Examples:

- Push (generic): /ITR/RDM\_WS\_SEND\_OBJECT
- Pull (generic): /ITR/RDM\_WS\_GET\_OBJECT
- Pull (object-specific): /ITR/RDM\_WS\_GET\_PLANT

Transaction SALE: Define Logical System

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

New Entries

Log.System	Name
RDM_WEBSER	Webbservice

## Transaction DRFIMG: Define Technical Settings and Replication Models

Data Replication

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

Change View "Define Business Systems": Overview

New Entries

Business System	Logical System	RFC Destination	Logical File Path	Download to PS	Unicode	Unicode Code Page	Disabled for Replication
RDM_WEBSER	RDM_WEBSER			<input type="checkbox"/>	<input type="checkbox"/>	0	<input type="checkbox"/>

Data Replication

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

Define Replication Model

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

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

Define Replication Model

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

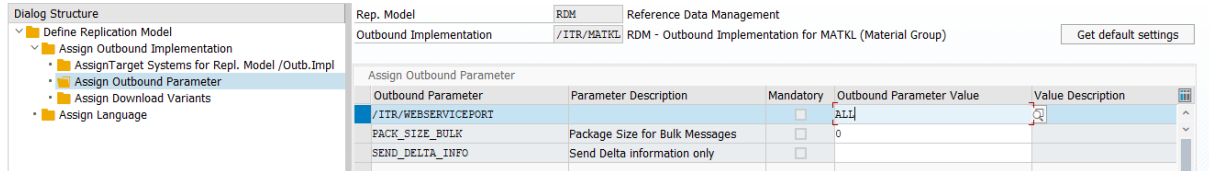
Outbound Implementation	Description	Sequence	Communication Channel	Filter Time
/ITR/MATKL	M - Outbound Implementation for MATKL		Replication via IDoc	Filter After Change A
/ITR/MMSTA	RDM - Outbound Implementation for MMST		Replication via IDoc	Filter After Change A
/ITR/MMSTA	Outbound Implementation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

Dialog Structure

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

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

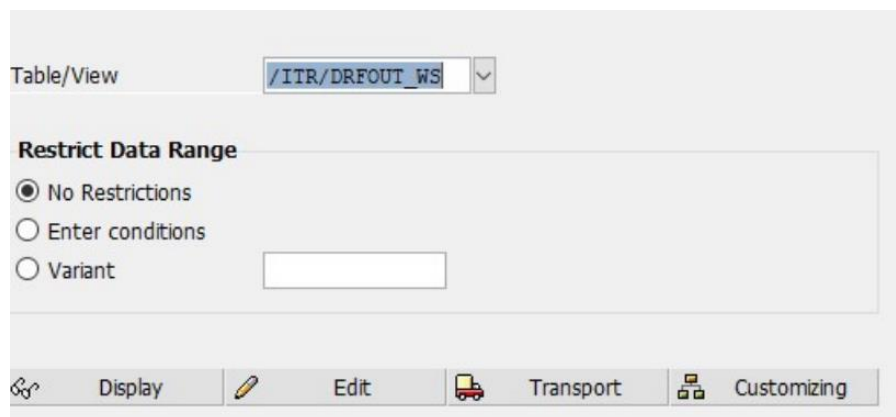
AssignTarget Systems for Repl. Model /Outb.Impl
Business System
RDM_WEBSER



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

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

Maintenance of ports via table /ITR/DRFOUT\_WS



Table/View: **/ITR/DRFOUT\_WS**

**Restrict Data Range**

☒ No Restrictions

☐ Enter conditions

☐ Variant

Display Edit Transport Customizing

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

For necessary settings with regards to the WebService Environment using transaction SOAMANAGER please have a look at chapter 4.2 Data Replication based on Webservices.

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

### 3.9.4 Key Mapping

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

- MDG\_KM\_MAINTAIN - Maintain Key Mapping
- MDG\_ANALYSE\_IDM - Search Key Mapping

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

- Business Object Type: "RDM: <Object Type>". Example: "RDM: Company Codes"
- Object ID Type: "I\_<Entity Type> Description". Example: "I\_COMPCODE  
CompanyCode"

Example for maintenance of Key Mapping:

**Key Mapping RDM: Company Codes : 0001**

Save

**Object Selection**

\* Business Object Type: RDM: Company Codes

\* Business System: ITR100

\* Object ID Type/Object ID: CompanyCode / 0001

Show

**Mapped Objects**

Add Row Change Row Delete Row Undo Changes

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

Example for Search Key Mapping:

### Search Key Mapping

Start Search

---

**Selection Criteria**

Bus. Obj. Type RDM: Company Codes

Object ID Type I\_COMPCODE

Business System

ID Value

---

**Selected Objects**

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

---

**Mapping Groups of an Object**

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

Export to Spreadsheet:

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

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

[illegible]

### 3.9.5 Value Mapping

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







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


Examples for other attributes:

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

Maintained example:

Change View "Maintain Value Mapping Fields": Overview

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

### Display View "Assign Code Lists": Overview

Dialog Structure

- Assign Code Lists
  - Define Value Mapping

Object Type

DTEL

Global Data Typ

/ITR/T023/BKLAS

Assign Code Lists

Mapping ID	List Agency ID	List ID	List Version ID	Internal List ID	Outb. Def.	No Map.	Mapping Class
01	/ITR/T023/BKLAS	/ITR/T023/BKLAS	01		<input type="checkbox"/>	<input type="checkbox"/>	

### Display View "Define Value Mapping": Overview

Dialog Structure

- Assign Code Lists
  - Define Value Mapping

Object Type

DTEL

Global Data Type

/ITR/T023/BKLAS

Mapping ID

01

Define Value Mapping

Map Comb.	Internal Code Value	Description	External Code Value	Inb. Def.	Outb. Def.
1	0710		9999	<input type="checkbox"/>	<input type="checkbox"/>
2	0720		9998	<input type="checkbox"/>	<input type="checkbox"/>

External Codelist

External Codelist

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

### Display IMG

Existing BC Sets

BC Sets for Activity

Structure

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

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

New Entries

Assign Code Lists to Elements and Systems

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

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

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

[illegible]

Please add the filter objects manually

Dialog Structure

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

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

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

Dialog Structure

- Define Filter Objects
  - Assign Filters
  - Assign Entity Type

Filter Object:  RDM - Filter for PLANT OIF

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

Dialog Structure

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

Filter Object:  RDM - Filter for CUR\_EXRA

Assign Filters					
Filter	Description	Filter Type	General Filter Parameter	Manual Filter Parameter	Filter Class
80	OIF-Filter for CUR_EXRA	Explicit Complex Filter	<input type="text" value="/ITR/_S_I1_DRF_CUR_EXRA"/>		<input type="text" value="CL_USMD_DRF_FILTER"/>

### 3.10 Set Up Data Transfer

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

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

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

Transaction FILE:

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

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

e.g.: /usr/sap/<systemID>/MDG\_DATA\_IMPORT/<FILENAME>

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

e.g.: /usr/sap/<systemID>/MDG\_DATA\_ARCHIVE/<FILENAME>



Dialog Structure	
<ul style="list-style-type: none"> <li>Logical File Path Definition <ul style="list-style-type: none"> <li>Assignment of Physical Paths to Logical Path</li> </ul> </li> <li>Logical File Name Definition, Cross-Client</li> <li>Definition of Variables</li> <li>Syntax Group Definition</li> </ul>	
Logical file	Name
MDG_DATA_ARCHIVE	Master Data Archive
MDG_DATA_IMPORT	Master Data Import

Dialog Structure	
<ul style="list-style-type: none"> <li>Logical File Path Definition <ul style="list-style-type: none"> <li>Assignment of Physical Paths to Logical Path</li> </ul> </li> <li>Logical File Name Definition, Cross-Client</li> <li>Definition of Variables</li> <li>Syntax Group Definition</li> <li>Assignment of Operating System to Syntax Group</li> </ul>	
Log. File	MDG_DATA_ARCHIVE
Name	Master Data Archive
Physical file	
Data format	BIN
Applicat.area	
Logical path	MDG_DATA_ARCHIVE

Dialog Structure	
<ul style="list-style-type: none"> <li>Logical File Path Definition <ul style="list-style-type: none"> <li>Assignment of Physical Paths to Logical Path</li> </ul> </li> <li>Logical File Name Definition, Cross-Client</li> <li>Definition of Variables</li> <li>Syntax Group Definition</li> <li>Assignment of Operating System to Syntax Group</li> </ul>	
Log. File	MDG_DATA_IMPORT
Name	Master Data Import
Physical file	
Data format	BIN
Applicat.area	
Logical path	MDG_DATA_IMPORT

Using transaction MDGIMG configure the usage of these directories:

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

Dialog Structure	
<ul style="list-style-type: none"> <li>Data Transfer Directories</li> <li>Archive Path for Object types</li> </ul>	
Data Transfer Directories	
Logical File Path	Descript.
MDG_DATA_IMPORT	Master Data Import

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

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

### 3.11 Configure Product Hierarchy

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

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




- Verify the product hierarchy usage in your business applications
- 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](mailto:support@itego.de) - Subject: "RDM Product Hierarchy".

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

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:	<input checked="" type="checkbox"/>
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):

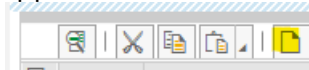
- No: 01; From No: 000000000000000001; To No: 000000000000049999
- No: 02; From No: 000000000000050000; To No: 000000000000099999
- No: 03; From No: 000000000000100000; To No: 000000000000099999

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:

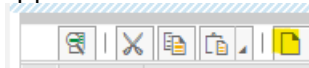
- Product Hierarchy Name: "ProdHrchy"
- Delimiter: ";"
- Output Folder on local desktop: <directory> (any directory which can be accessed by the user executing the report)

- Append Row



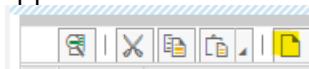
- Level: 1; <StartFrom> (any number which fits to the number range defined above for range number 01; e.g. 00001 for the initial load)

- 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)

Level No	StartFrom
1	1
2	50000
3	100000

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

- 1: 00000000000000000001
- 2: 0000000000000100000
- 3: 0000000100000000000

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

- 1: 00000000000000000001
- 2: 00000000000000000100
- 3: 0000000000000100000
- 4: 0000000010000000000
- 5: 0000100000000000000

**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)
  - o Entity Type: Product Hierarchy Node
  - o Attributes Data Row: Product Hierarchy Node, External Number, Prod.Hier.Level

\* Variant:  

Name:

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

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


\* Variant:  

Name:

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

- Node Level 2 attributes and texts
  - o Same Entity Type and variants as for Level 1 Nodes
- Sub Node attributes and texts (PH\_SN\_ATT and PH\_SN\_TXT)
  - o Entity Type: Product Hierarchy Sub Node


- Attributes: Product Hierarchy Sub Node, External Number

\* Variant:  

Name:

<input type="checkbox"/>	Entity Type / Attribute
<input type="checkbox"/>	▼ Header
<input type="checkbox"/>	▼ Data Row
<input type="checkbox"/>	Product Hierarchy Sub Node
<input type="checkbox"/>	External Number

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


\* Variant:  

Name:

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

- Hierarchy assignments
  - Entity Type: Product Hierarchy Node
  - Higher-level Node: Product Hierarchy Name, Product Hierarchy Node
  - Lower-level Node: Product Hierarchy Node, Product Hierarchy Sub Node

- For an “all-in-one upload” you can use this variant definition:

\* Variant:  

Name:

<input type="checkbox"/>	Entity Type / Attribute
<input type="checkbox"/>	▼ Header
<input type="checkbox"/>	▼ Data Row
<input type="checkbox"/>	▼ Higher-level Node
<input type="checkbox"/>	Product Hierarchy Name
<input type="checkbox"/>	Product Hierarchy Node
<input type="checkbox"/>	▼ Lower-level Node
<input type="checkbox"/>	Product Hierarchy Node
<input type="checkbox"/>	Product Hierarchy Sub Node

- Level 1 hierarchy assignments of level 1 nodes to the product hierarchy name
  - o Entity Type: Product Hierarchy Node
  - o Higher-level Node: Product Hierarchy Name
  - o Lower-level Node: Product Hierarchy Node
- Level 2 hierarchy assignments of level 2 nodes to level 1 nodes
  - o Entity Type: Product Hierarchy Node
  - o Higher-level Node: Product Hierarchy Name, Product Hierarchy Node
  - o Lower-level Node: Product Hierarchy Node
- Level 3 hierarchy assignments of sub nodes to level 2 nodes
  - o Entity Type: Product Hierarchy Node
  - o 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
  - o Attributes: PRODH\_EXTRACT\_1\_\*
  - o Texts: PRODH\_EXTRACT\_1\_T\*
- Node Level 2 attributes and texts
  - o Attributes: PRODH\_EXTRACT\_2\_\*
  - o Texts: PRODH\_EXTRACT\_2\_T\*
- Sub Node attributes and texts
  - o Attributes: PRODH\_EXTRACT\_3\_\*
  - o Texts: PRODH\_EXTRACT\_3\_T\*
- Level 1 hierarchy assignments of level 1 nodes to the product hierarchy name)
  - o Assignments: PRODH\_EXTRACT\_1\_H\*
- Level 2 hierarchy assignments of level 2 nodes to level 1 nodes
  - o Assignments: PRODH\_EXTRACT\_2\_H\*



- Level 3 hierarchy assignments of sub nodes to level 2 nodes
  - o 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:

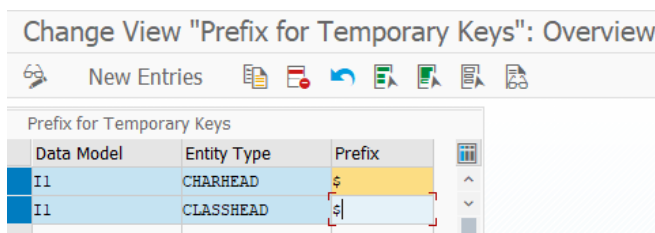
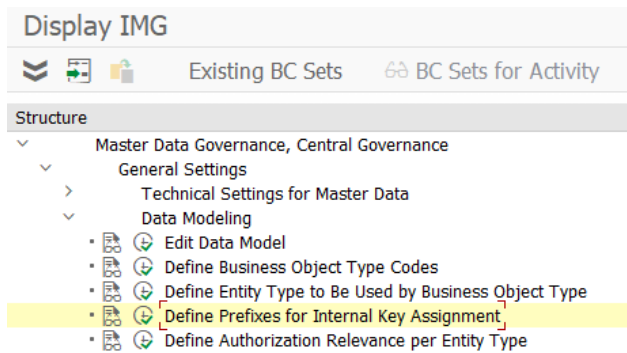
Classes:

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

Characteristics:

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

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



### 3.13 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](mailto: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](mailto:support@itego.de) - Subject: "RDM Project Specific Enhancements".

## 4 Configuration Examples

### 4.1 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.

#### 4.1.1 Prerequisite: RFC Destination

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

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

#### Connection Test

Connection Test should be successful

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

#### 4.1.2 Define Logical System

System IH1 100, transaction SALE:

## Display IMG

Existing BC Sets [BC Sets for Activity](#)

### Structure

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

## Change View "Logical Systems": Overview

New Entries

Logical Systems	
Log.System	Name
IH1100	IH1 Client 100 - S/4 MDG
IH1400	IH1 Client 400 - S/4 ERP
IR1200	IR1 Client 200 - S/4 ERP

Prompt for workbench request

View Maintenance: ...

Request

Workbench request

Short Description

☒ ☐ ☐ ☐ Own Requests ☐

### 4.1.2 Check or Create Business System

System IH1 100, transaction DRFIMG:

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

#### Change View "Define Business Systems": Overview

New Entries

Dialog Structure

Define Business System

Define Bus. Systems

Define Bus. System

Define Business Systems

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

#### 4.1.3 Check or Create BAdI for determination of local system name

System IH1 100, transaction DRFIMG:

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

Or use transaction SE18, BAdI Name: MDG\_IDM\_GET\_LCL\_SYSTEM

#### BAdI Builder: Initial Screen for Definitions

<input type="radio"/> Enhancement Spot	
<input checked="" type="radio"/> BAdI Name	MDG_IDM_GET_LCL_SYSTEM
<input type="button" value="Display"/> <input type="button" value="Change"/> <input type="button" value="Create"/>	

Enhancement Spot MDG\_ID\_MAPPING\_API Display

Enhancement Spot: MDG\_ID\_MAPPING\_API Active

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

BAdI Definitions

- MDG\_IDM\_GET\_LCL\_SYS Determination of local system
  - Interface
  - Implementations

Implementations

BAdI Definition: MDG\_IDM\_GET\_LCL\_SYSTEM

1 implementation found

Active	Enhancement Implementation	BAdI Implementation
	ZIT_LOCSYS	ZIT_LOCSYS

Class Builder: Display Class ZIT\_CL\_LOCSYS

Class/Interface: ZIT\_CL\_LOCSYS Implemented / Active

Properties | Interfaces | Friends | Attributes | **Methods** | Events | Types | Aliases

Parameters | Exceptions | Sourcecode | Filter

Method	Level	Visibility	M...	Description
IF_MDG_IDM_GET_LCL_SYSTEM~GET_LOCAL_SYSTEM	Instance 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.
```

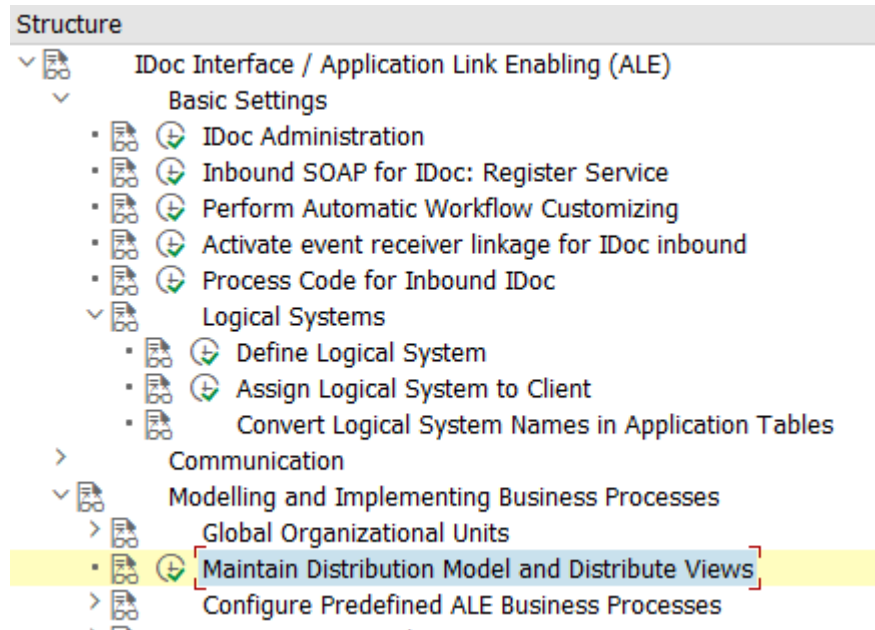
```
  ev_local_system = ls_bs_tech-business_system.
```

```
ENDIF.
```

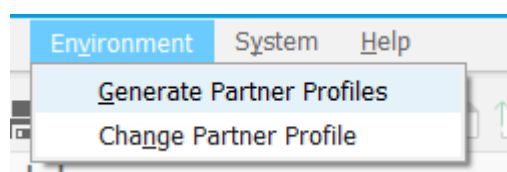
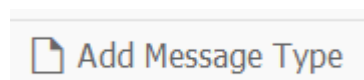
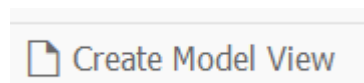
```
endmethod.
```

#### 4.1.4 Define Distribution Model

Use transaction SALE (or BD64):





Create Model View and Add Message Type





## Generate Partner Profile



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

### Default Parameters for Partner Profile

#### Postprocessing: Authorized Users

Ty.	US	User
ID	RDM_ADM_01	RDM Admin

#### Outbound

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

#### Inbound

<b>Processing</b>	
<input checked="" type="radio"/> Trigger immediately <input type="radio"/> Trigger by background program	

## Log for Partner Profile Generation

Task	System	Status	Result
Partner	System IH1100	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		0A0	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	IR1 Client 200 - S/4 ERP
<ul style="list-style-type: none"> <li>Partner Profiles           <ul style="list-style-type: none"> <li>Partner Type AD</li> <li>Partner Type B</li> <li>Partner Type BP</li> <li>Partner Type GP</li> <li>Partner Type KU</li> <li>Partner Type LI</li> <li>Partner Type LS               <ul style="list-style-type: none"> <li>IH1100</li> <li>IH1400</li> <li><b>IR1200</b></li> </ul> </li> <li>Partner Type US</li> </ul> </li> </ul>	Bank Benefits pr Business P Customer Vendor Logical syst IH1 Client 1 IH1 Client 4 IR1 Client 2 User (first	Partn.Type LS Logical system		
Post Processing: Valid Processors    Classification				
Ty.    US    User Agent    RDM_ADM_01    RDM Admin Lang.    EN    English				
Outbound				
Partner R...	Message type	Message v...	Function	Test
	/ITG/GENERIC			<input type="checkbox"/> A000000001 @ 100 /ITG/GENERIC02
	SYNCH			<input type="checkbox"/> A000000001 @ 100 SYNCHRON


BD64: Distribute Model View to receiver (IR1200)

The screenshot shows the SAP Distribution Model interface. The 'Distribution Model' tree on the left includes 'Model Views' and 'RDM Replication'. The 'Model View' context menu is open, showing options like 'Delete', 'System View', 'Filter Display', 'Expand Subtree', 'Collapse Subtree', 'Model Check', 'Model View', 'Add BAPI', 'Add Message Type', 'Display/Edit Details', and 'Cancel'. The 'Distribute' option is highlighted in the 'Model View' submenu. The 'Description/Technical Name' list on the right includes MM-PUR1, MM-PUR2, QM-CONTR, HRFICOUPLI, INTERNET, LOGISTICS, MASTERDATA, RDM\_REP, and IH1100.

## Log of Model View Distribution



### Distribution of Model View RDM\_REP

Step	Status	Details
Target system IR1200		Model view RDM_REP was created

Log On to system IR1200 and execute transaction SALE:

Check Logical Systems

## Display IMG



Existing BC Sets

BC Sets for Activity

### Structure

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

## Change View "Logical Systems": Overview



New Entries

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

## Display IMG

Existing BC Sets    BC Sets for Activity

Structure

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

Distribution Model    Edit    Goto    Environment    System    Help


Generate Partner Profiles  
Change Partner Profile




## Display Distribution Model

Check Models    System View    Filter Model Display

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

## Generate Partner Profile



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

### Default Parameters for Partner Profile

#### Postprocessing: Authorized Users

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

#### Outbound

Version	<input type="text" value="3"/>	IDoc record types from Version 4.0 onwards
Pack. Size	<input type="text" value="100"/>	IDocs

##### Output Mode

☒ Pass IDoc immediately

☐ Collect and pass IDocs

#### Inbound

##### Processing

☒ Trigger immediately

☐ Trigger by background program

Check in WE20

Partner profiles

Partner No. **IH1100** IH1 Client 100 - MDG  
 Partn.Type **LS** Logical system

Post Processing: Valid Processors Classification

Ty. **US** User  
 Agent **RDM\_ADM\_01** RDM\_ADM\_01  
 Lang. **EN** English

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

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

Partner Profiles: Inbound Parameters

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

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

Inbound options Post Processing: Valid Processors Telephony

Process code **/ITG/GENERIC\_IN\_BUNDLE**

☒ Cancel Processing After Syntax Error

Processing by Function Module

☐ Trigger by background program  
☒ Trigger Immediately

Options

System IH1 100: Check DRFIMG:

**Display IMG**

Existing BC Sets    BC Sets for Activity

**Structure**

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

Change View "Define Business Systems": Overview

New Entries

Dialog Structure

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

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

Nothing else to be configured:

**Dialog Structure**

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

**Business System** IR1200

Define Bus. Systems, BOs

BO Type	Description

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

**Dialog Structure**

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

Replication Model: RDM    Reference Data Management

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

AssignTarget Systems for Repl. Model /Outb.Impl

Business System
IH1400
IR1200

Dialog Structure

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

Replication Model

RDM

Reference Data Management

Assign Outbound Implementation

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

Data Replication Model needs to be active:

Dialog Structure

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

Define Replication Model

Replication Model	Description	Log Days	Data Model	Active
\$S4HTOC4C\$	Business Partner Replication to C4C	50		<input type="checkbox"/>
BAMMAST_RM	BAM Master Replication	1		<input type="checkbox"/>
CHAR	Characteristics	15	I1	<input type="checkbox"/>
RDM	Reference Data Management	15	I1	<input checked="" type="checkbox"/>

Activate

Deactivate

## 4.2 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.

### 4.2.1 Receiver: Technical Administration: Profiles and Provider Systems




System IR1 200: transaction SOAMANAGER:

#### Technical Administration

##### Profiles

Define common security settings for business scenario configuration



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

### Detail

Profile Name: MYPROFILE\_XXX  
Profile Type: Local  
Profile Version: 2

[Security Settings](#) [Transport Settings](#) [Administration Information](#)

### Transport Guarantee

#### Transport Level Security

☒ None (http)  
☐ SSL (https)




Or https based on your security requirements.

## Provider Systems

Define provider systems for usage in business scenario configuration

### Provider Systems

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

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

### Provider System

[General](#) [WSDL Access](#) [IBC References](#) [Business Applications](#) [Administrative Information](#)

Name:\* PROVIDER\_SYSTEM\_B...

Description: Provider System for System B

Profile Name:\* MYPROFILE\_XXX

Profile Version: 1 [Update Version](#)

General
WSDL Access
IBC References
Business Applications
Administrative Information

### Services Registry

☐ Use Services Registry

Services Registry:
&ltPrimary Service Registry>

SLD Identifier:
PROVIDER\_SYSTEM\_B\_XXX

### Logical System

Logical system:

### WSIL Service

☒ Use WSIL

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

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

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



## 4.2.2 Receiver: Service Administration: Business Context

System IR1 200: transaction SOAMANAGER:

### Service Administration

#### Identifiable Business Context

Display and maintain Identifiable Business Contexts (IBCs)

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

## Identifiable Business Context Reference

Display and maintain Identifiable Business Contexts references (IBC reference)

Actions	Name	Type	Type Description	System	Description	Application ...	Is Assign...
 	IR1/200	CLIENT	Client	IR1/200	Automatically generated for...	BC-ESI-WS-AB...	<input checked="" type="checkbox"/>




### 4.2.3 Receiver: Service Administration: Local Integration Scenario

System IR1 200: transaction SOAMANAGER:

#### Service Administration

## Local Integration Scenario Configuration

Configure multiple service definitions and service groups supporting change management

  	Local	MYSCENARIO_B_XXX	Scenario B	Active

**Detail**

Scenario Name: MYSCENARIO\_B\_XXX  
Scenario Type: Local

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

Internal Name	External Name	External Namespace	Description	Assigned Profiles	Is Configured
/ITR/RDM_WS_SEND_OBJECT	/ITR/RDM_WS_SEND_OBJECT	urn:sap-com:document:sap:soap...	No short text found	MYPROFILE_XXX	<input checked="" type="checkbox"/>




### 4.2.4 Receiver: Services Registry: Published Systems and Objects

System IR1 200: transaction SOAMANAGER:

#### Services Registry




## Publishing Systems

Display and maintain Publishing Systems in Services Registry

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










## Published Service Definitions

Display and maintain published Service Definitions in Services Registry

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

## Published Bindings



















Display and maintain published Bindings in Services Registry

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

### Details of Service Definition: /ITR/RDM\_WS\_SEND\_OBJECT

Overview Configurations Classifications Details




#### Define Services and Bindings

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

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

## Published IBCs

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

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

## 4.2.5 Sender: Technical Administration: Profiles and Provider Systems

System IH1 100: transaction SOAMANAGER:







### Technical Administration

#### Profiles

Define common security settings for business scenario configuration

Profiles

[Create Profile](#) [Import](#)

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

Detail

Profile Name: MYPROFILE\_XXX  
 Profile Type: Local  
 Profile Version: 1

[Security Settings](#) [Transport Settings](#) [Administration Information](#)

Transport Guarantee

Transport Level Security

☒ None (http)  
☐ SSL (https)




Or https based on your security requirements.

#### Provider Systems

Define provider systems for usage in business scenario configuration

Provider Systems

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

Actions	Type	Provider System Name	Description	Creation Type	State
  	Local	PROVIDER_SYSTEM_A_XXX	Provider System for System A	Provider System	Active

Edit
Save
Deactivate
Cancel

General
WSDL Access
IBC References
Business Applications
Administrative Information

### Provider System

Name:\* PROVIDER\_SYSTEM\_A...

Description: Provider System for System A

Profile Name:\* MYPROFILE\_XXX

Profile Version: 1 [Update Version](#)

Edit
Save
Deactivate
Cancel

General
WSDL Access
IBC References
Business Applications
Administrative Information

### Services Registry

☐ Use Services Registry

Services Registry: <Primary Service Registry>

SLD Identifier: PROVIDER\_SYSTEM\_A\_XXX

### Logical System

Logical system:

### WSIL Service

☒ Use WSIL

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

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

Edit
Save
Deactivate
Cancel

General
WSDL Access
IBC References
Business Applications
Administrative Information

IBC ID	Type	Name	System
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		3D38EACD59B11EED87AABECE382FD6F2



## 4.2.6 Sender: Service Administration: Business Context

System IH1 100: transaction SOAMANAGER:

## Service Administration





### Identifiable Business Context

Display and maintain Identifiable Business Contexts (IBCs)

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

### Identifiable Business Context Reference

Display and maintain Identifiable Business Contexts references (IBC reference)

Actions	Name	Type	Type Description	System	Description	Application Co...	Is Assigned
 	IH1/100	CLIENT	Client	IH1/100		BC-ESI-WS-ABA...	<input type="checkbox"/>
 	PROVIDER_SYSTEM_A_XXX	CLIENT		PROVIDER_SYSTEM_A_XXX	Automatically generated for Bu...	BC-ESI-WS-ABA...	<input checked="" type="checkbox"/>




## 4.2.7 Sender: Service Administration: Local Integration Scenario

System IH1 100: transaction SOAMANAGER:

## Service Administration

### Local Integration Scenario Configuration

Configure multiple service definitions and service groups supporting change management

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

#### 4.2.8 Sender: Service Administration: Logon Data

System IH1 100: transaction SOAMANAGER:

##### Service Administration



##### Logon Data Management

Define logon data used by business scenario configuration

Maintenance Assignments

##### Logon Data

Create

Actions	Type	Logon Data Name	Description
 	Local	MYUSER_XXX	Logon User

##### Logon Data Detail for 'MYUSER\_XXX'

Credentials Administrative Information



Authentication Met... \* User/Password or X.509

#### Provide User and Password

Maintenance Assignments

##### Logon Data Assignments

Create

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

#### Assignment to Service Group

#### 4.2.9 Sender: Service Administration: Web Service

System IH1 100: transaction SOAMANAGER:

##### Service Administration



##### Web Service Configuration



Configure service definitions, consumer proxies and service groups





Design Time Object Search    Configuration Search





▼ Search criteria

Object Type  is  All   




















Object Name  contains  /ITR/RDM\*  

Maximum Number of Results:  100    Saved Search:   

Search Result

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







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

Logical port created based on exported WSDL from receiver system.

Details of Consumer Proxy: /ITR/CO\_WS\_CONS\_\_ITR\_RDM\_WS\_S

Overview    **Configurations**    Details

Define Logical Ports

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

#### 4.2.10 Sender: Services Registry: Published Systems and Objects

System IH1 100: transaction SOAMANAGER:

##### Services Registry

#### Publishing Systems

Display and maintain Publishing Systems in Services Registry

<input type="checkbox"/>	Actions	Name	Name and Client	Logical Key	Host Name	Publishing System Type	Application	Publ.	Orig.
<input type="checkbox"/>	  	IH1	IH1(100)	100.SystemName.IH1.SystemNumber.0090257000.SystemHome.Ih1r3#ABAP	ih1r3	ABAP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>







## Published Service Definitions

Display and maintain published Service Definitions in Services Registry

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



## Published Bindings

Display and maintain published Bindings in Services Registry

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

## Published IBCs

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

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