Reference Data Management 2210
for SAP Master Data Governance

Installation and Upgrade

Itego

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Content

1 Introducing Reference Data Management

Note: Please read the complete Installation Guide before starting the installation or the upgrade and create backups of your systems.

Reference Data Management (RDM) for SAP MDG provides the harmonization (RDH) and governance (RDG) of reference data using pre-delivered reference data objects, user interfaces, workflows and the replication of reference data to business applications. For SAP based business applications (ERP or S/4 based) RDM delivers a local staging area which is installed on the business system and can be used as one option to receive and forward the reference data within the system landscape.

The sections and figures below provide an overview about the different deployment and connectivity scenarios. Important to understand is that RDM software components are installed on sender as well as receiver systems. The sender is not only restricted to SAP MDG but can be any SAP ERP, S/4 or non-SAP system and the receiver is not restricted to SAP ERP or SAP S/4, the SAP MDG system can be a receiver as well.

These scenarios are just listed to illustrate the possible scenarios and do not have an impact on the software components to be installed on SAP MDG and on SAP ERP or S/4 systems. There is a fixed set of four software components (ITO, ITR, ITU and ITG) to be installed on SAP MDG and a subset consisting of two software components (ITO and ITG) to be installed on the SAP Business Systems (ERP or S/4).

The figure below shows the components of RDM and their relation to components of SAP MDG. The Master Data Framework (MDF) builds the foundation and Reference Data Harmonization (RDH) and Reference Data Governance (RDG) deliver the main functionalities and possible scenarios are explained in more detail in the next chapters.
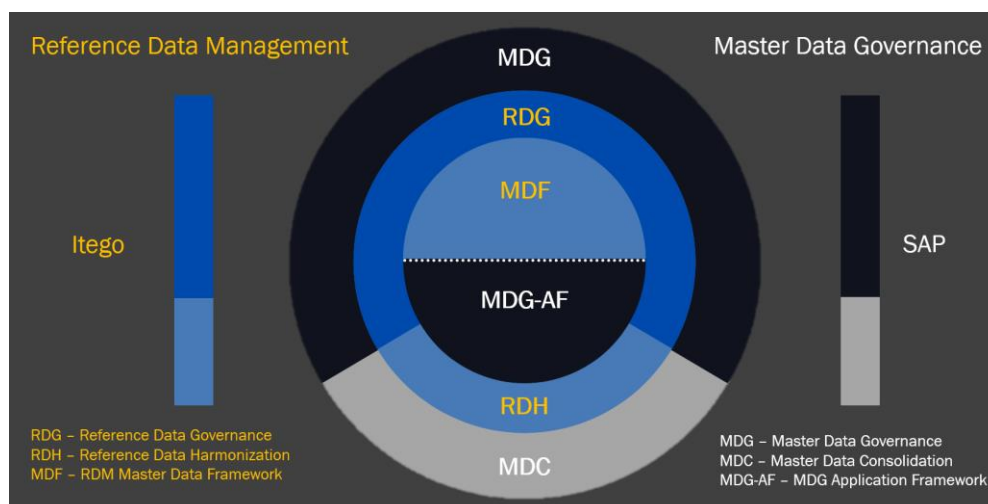

Figure 1: Components of Reference Data Management

1.1 Reference Data Harmonization (RDH)

Reference Data Harmonization (RDH) helps to create consolidated reference data which can be synchronized. It can be used without RDG on SAP MDG but it is recommended to use RDG on SAP MDG to take advantage of additional features for the controlled governance of reference data. In a first step reference data is consolidated in a central system which ideally is the SAP MDG system with RDM (consisting of RDG and RDH) installed as shown below. In this step the Business Systems are the senders and the SAP MDG system is the receiver.
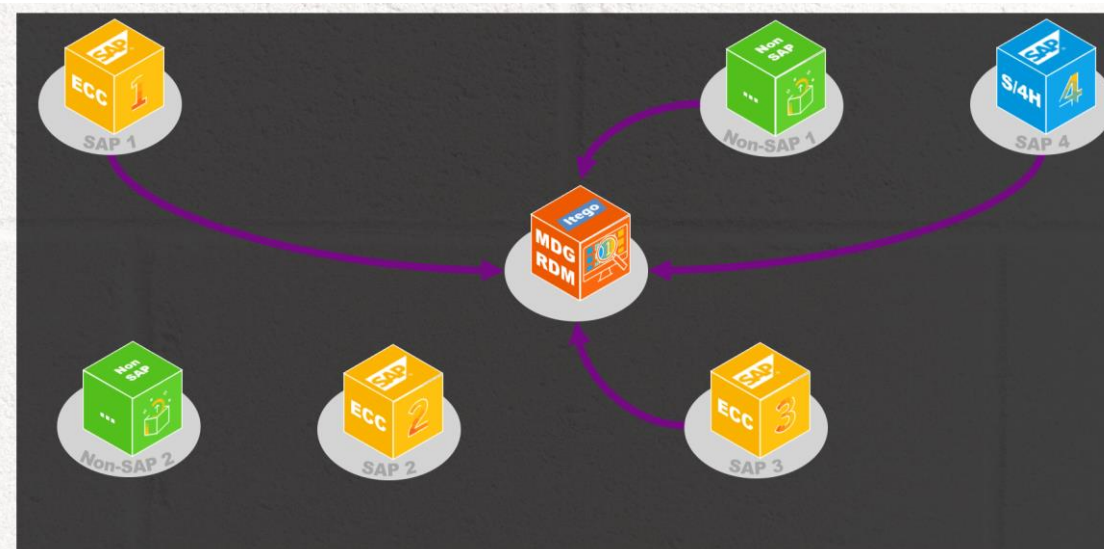

Figure 2: Harmonization Step 1 - Consolidation

In a second step reference data is synchronized (SAP MDG as the sender and Business Systems as receivers) and more data can be consolidated.
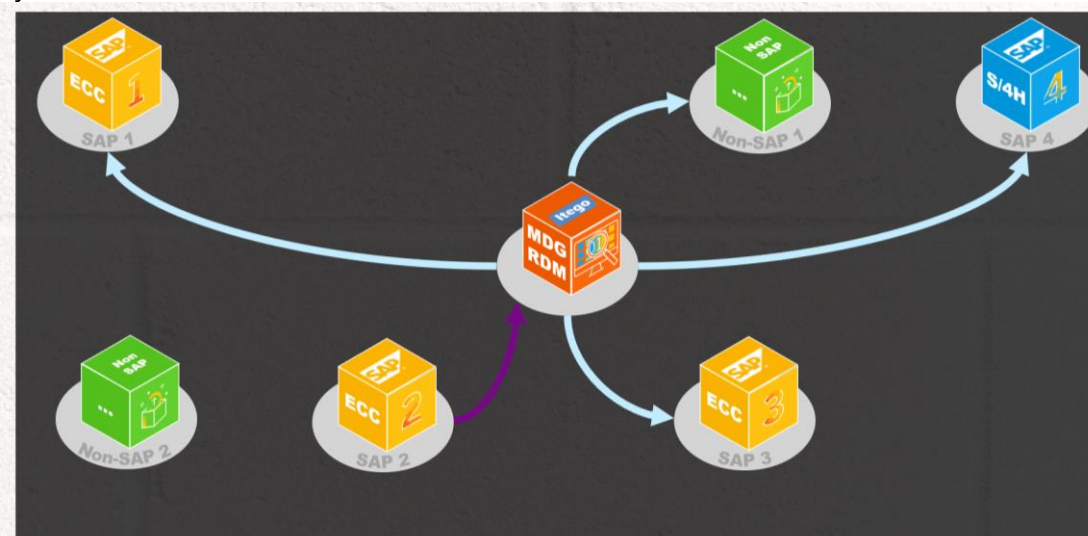

Figure 3: Harmonization Step 2 - Synchronization

The last figure below shows the deployment options with regards to development, test and productive systems.

The Sender Cockpit is installed on development systems and delivers functionalities for configuration, replication and monitoring. It is used for consolidation (as a sender of data that shall be consolidated in a receiver) as well as synchronization (as a sender of data that shall be replicated to consuming system that use this data as provided by the sender).

The Receiver Cockpit helps to consolidate reference data (as a receiver on a development system) or helps to activate data on consuming systems (on development systems).
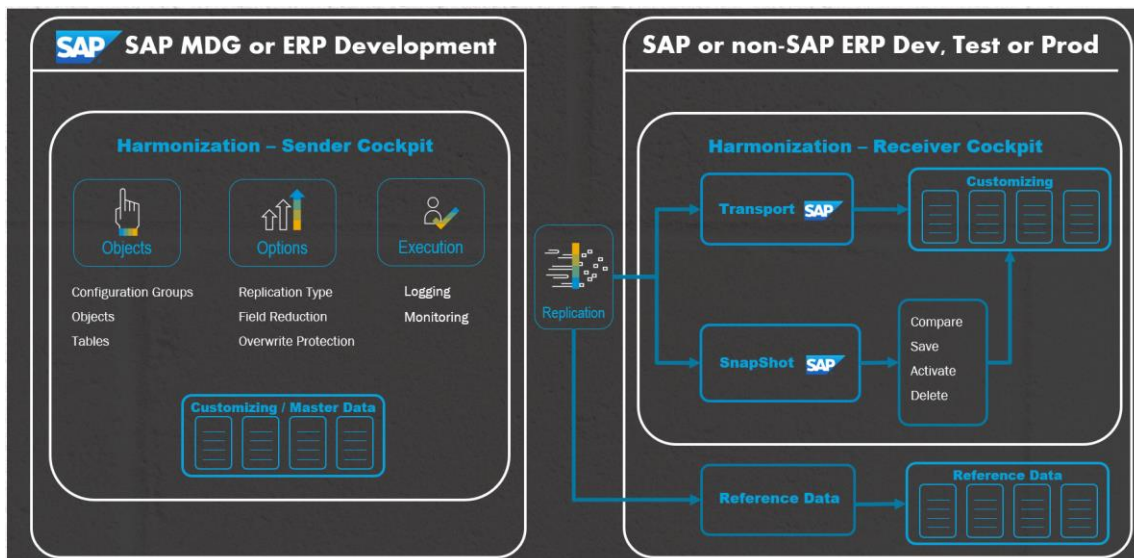
Figure 4: Harmonization – Deployments, Replication and Functions

On top of this RDM delivers functionalities to send reference data (in cases which are based on objects which are master data and not configuration or customizing data) directly to productive systems. Examples for the latter are Exchange Rates, Classification or any reference data object type which is replicated using the "Business Controlled Governance Alternative" (see following section about RDG).

1.2 Reference Data Governance (RDG)

Reference Data Governance (RDG) is based on SAP Master Data Governance (MDG) which provides a framework with functions for the (workflow driven) maintenance of master data and reference data.
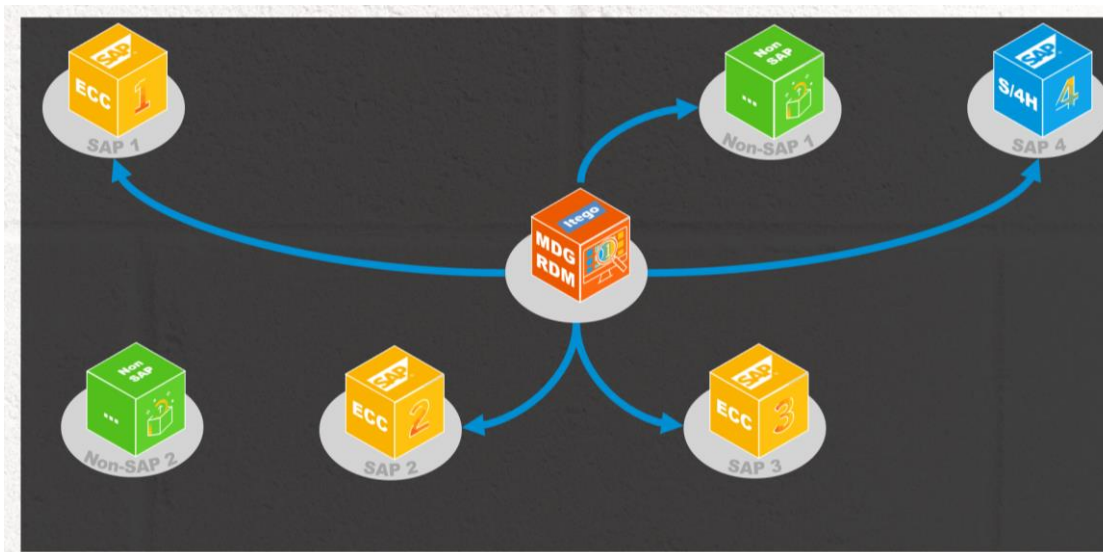
Figure 5: Governance – Workflow Driven Maintenance and Data Replication

Reference data is replicated either in a "Business Controlled Governance Alternative" which means to replicate reference data in the same fashion as master data. Mainly from the SAP MDG production system to productive business application systems but also to test or development systems if needed.
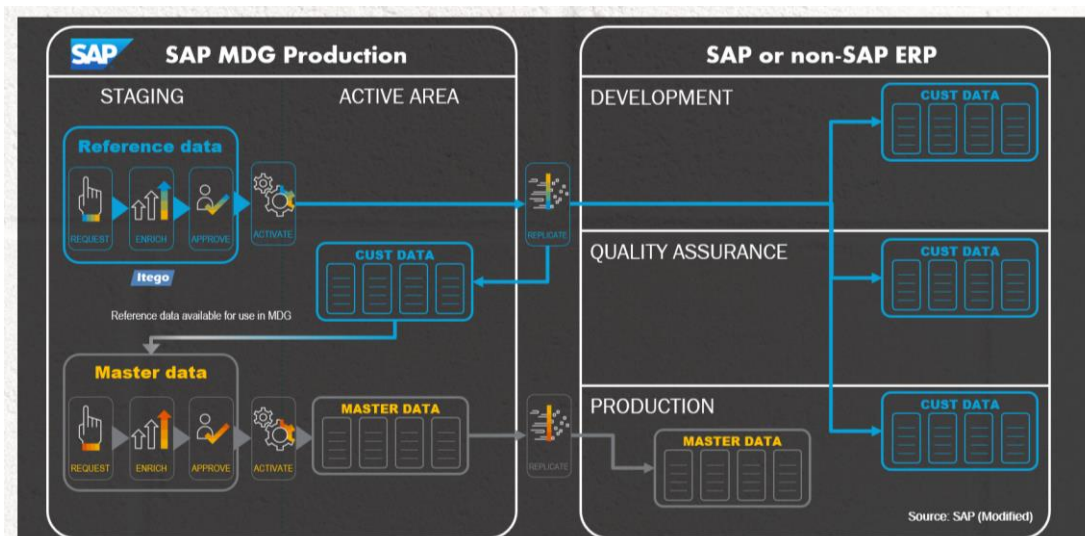

Figure 6: Governance – Business Controlled Governance Alternative

In the second scenario (Full IT Governance Alternative) data is sent to a Local Staging Area (delivered by RDM) installed on the SAP based receiving systems (development systems). From there SAP basis technology is used (SAP transports) to propagate the data from development to production systems.
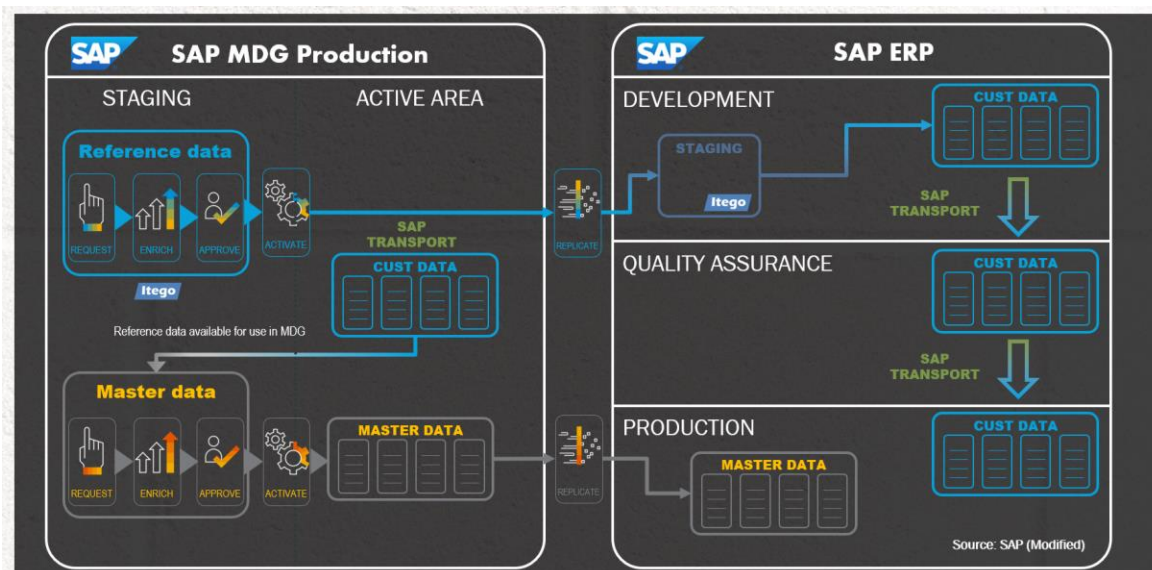
Figure 7: Governance – Full IT Governance Alternative

In order to orchestrate the propagation of data from development systems to production systems, the RDM integration to SAP Solution Manager can be used. In this scenario the SAP Solution Manager helps to control the roll-out of this data to all production systems.

This includes the SAP MDG system where reference data (of type configuration data) is stored in MDG only before it arrives via the SAP transport mechanism in the SAP Business Application Layer on the productive system. Only after this it also can be used as reference data for other applications that might be installed on the SAP MDG system.
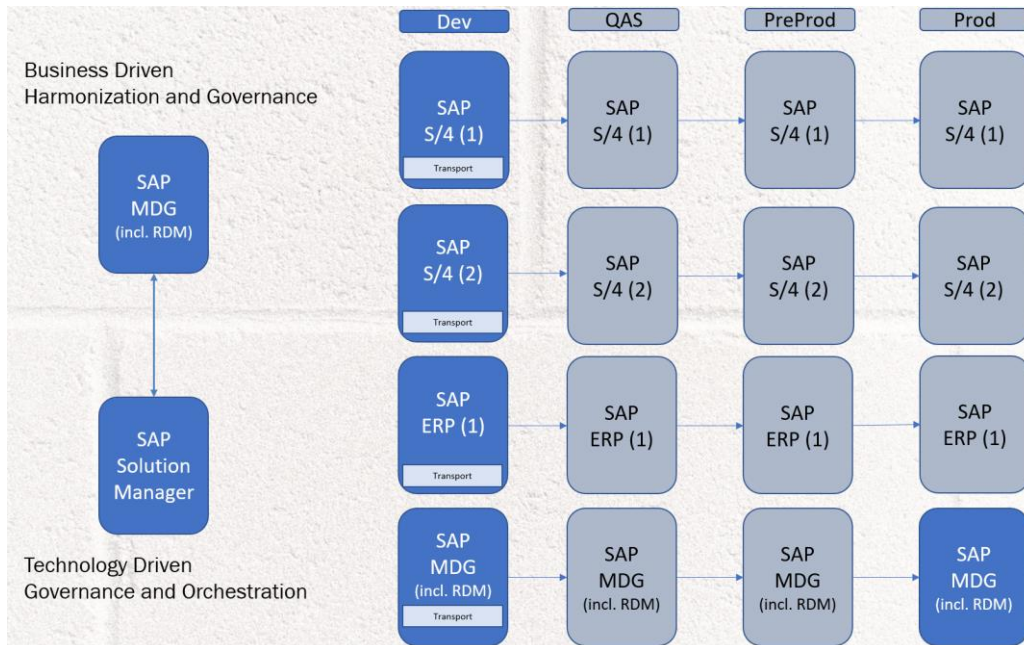
Figure 8: Harmonization and Governance – Solution Manager Integration

This scenario is not needed for reference data which is master data (for example Exchange Rates or Classification).

1.3 Software Components of Reference Data Management

RDM is installed as an SAP Add-On and contains four Software Components
- ITG, "Generic Framework"
    - installed on SAP MDG and on SAP based receiving systems
- ITU, "MDF Utility Objects"
    - installed on SAP MDG
- ITO, "Reference Data Management Local Staging"
    - installed on SAP MDG and on SAP based receiving systems
- ITR, "Reference Data Management",
    - installed on SAP MDG

All components need to be installed on the SAP MDG system and only a subset (ITO and ITG) need to be installed on the SAP Business Systems.

Language Support:
- English (EN)
- German (DE)

In order to obtain more information about planned language support or to request new languages please contact: support@itego.de - Subject: "RDM Languages".

2   Versions and Prerequisites

The following software component versions are delivered with RDM 2210:
- ITO 620, SP06, Reference Data Management Local Staging
- ITR 620, SP06, Reference Data Management
- ITU 620, SP04, MDF Utility Objects
- ITG 620, SP05, Generic Framework

Software Component version (minimum) required for RDM Software Component ITO
- SAP_BASIS 7.50, SP01

Software Component versions (minimum) required for RDM Software Component ITR
- SAP_BASIS 7.50, SP01
- MDG_FND 7.50, SP01
- MDG_APPL 620, SP01
- ITO 620, SP06

Software Component versions (minimum) for RDM Software Component ITU
- SAP_BASIS 7.50, SP01
- MDG_FND 7.50, SP01
- MDG_APPL 620, SP01

Software Component version (minimum) required for RDM Software Component ITG
- SAP_BASIS 7.50, SP01

3   Installation or Upgrade

The following section provides an overview of the installation and upgrade steps which have to be executed on the SAP MDG and the SAP Business Systems. Installation means to install all delivered files for all software component versions. Upgrade means to install all delivered files which are necessary to upgrade from the current software component versions to the target versions.

The figure below provides an overview of the currently available installation or upgrade files as a reference. Archives including the necessary files for a new installation or for an upgrade are available for SAP MDG as well as for SAP Business Systems. This means that you usually

should have a complete set of installation or upgrade files based on your need. In doubt please request a new archive by contacting support@itego.de - Subject: "RDM Installation or Upgrade Archive" and specify which is the source and the target release. Please also include if the archive is needed for the SAP MDG system or the SAP Business Application systems.

Delivery	OCS File Name	Package	SW Comp	Release	SP
R2006	ITQ0090257000_0000186.PAT	SAPK-620COINITG	ITG	620	00
	ITQ0090257000_0000188.PAT	SAPK-620COINITU	ITU	620	00
	ITQ0090257000_0000182.PAT	SAPK-620COINITO	ITO	620	00
	ITQ0090257000_0000189.PAT	SAPK-620COINITR	ITR	620	00
	ITQ0090257000_0000191.PAT	SAPK-62001INITR	ITR	620	01
R2104	ITQ0090257000_0000206.PAT	SAPK-62001INITG	ITG	620	01
	ITQ0090257000_0000225.PAT	SAPK-62001INITU	ITU	620	01
	ITQ0090257000_0000201.PAT	SAPK-62001INITO	ITO	620	01
	ITQ0090257000_0000213.PAT	SAPK-62002INITO	ITO	620	02
	ITQ0090257000_0000203.PAT	SAPK-62002INITR	ITR	620	02
R2204	ITQ0090257000_0000299.PAT	SAPK-62002INITG	ITG	620	02
	ITQ0090257000_0000294.PAT	SAPK-62002INITU	ITU	620	02
	ITQ0090257000_0000301.PAT	SAPK-62003INITO	ITO	620	03
	ITQ0090257000_0000298.PAT	SAPK-62003INITR	ITR	620	03
R2209 (Correction Package)	ITQ0090257000_0000324.PAT	SAPK-62003INITG	ITG	620	03
	ITQ0090257000_0000327.PAT	SAPK-62003INITU	ITU	620	03
	ITQ0090257000_0000325.PAT	SAPK-62004INITO	ITO	620	04
	ITQ0090257000_0000330.PAT	SAPK-62004INITR	ITR	620	04
R2210	ITQ0090257000_0000338.PAT	SAPK-62004INITG	ITG	620	04
	ITQ0090257000_0000349.PAT	SAPK-62005INITG	ITG	620	05
	ITQ0090257000_0000334.PAT	SAPK-62004INITU	ITU	620	04
	ITQ0090257000_0000337.PAT	SAPK-62005INITO	ITO	620	05
	ITQ0090257000_0000350.PAT	SAPK-62006INITO	ITO	620	06
	ITQ0090257000_0000339.PAT	SAPK-62005INITR	ITR	620	05
	ITQ0090257000_0000351.PAT	SAPK-62006INITR	ITR	620	06

Figure 9: Installation or Upgrade Files necessary for each software component

Note: Please ensure that after the installation or upgrade necessary configuration steps are carried out based on the Configuration Guide for RDM. Even for an upgrade there are usually at least some additional BC Sets to be activated.

3.1 SAP MDG System

In contrast to the SAP Business Systems the RDM installed on the SAP MDG system provides additional functionalities for the consolidation and governance of reference data. Therefor more software components have to be installed. See next section for the installation of the SAP Business Systems.

3.1.1 Upload Installation or Upgrade files

Upload the Installation files for the Software Components ITR, ITO, ITG and ITU to the installation directory of the Application Server (e.g. …/EPS/in).

Installation files are also delivered as archive files (using the SAR format). For the installation or the upgrade of RDM on the MDG system please use "RDM_MDG" archives. For upgrading from RDM 2204 to RDM 2210: "RDM_MDG_R2210_upgrade_from_R2204.SAR". Using the correct archive files ensures the installation or upgrade of the correct software components and software component versions.

3.1.2 Install ITG

Execute transaction SAINT and navigate to Installation Package -> Load Packages -> EPS Files from Application Server and confirm the Upload. After the Upload start the Installation process by clicking the "Start" button.

Choose „ITG" from the installable Add-on packages and click the „Continue" button and also continue the process by clicking the "Continue" button on the next screens ("Support Package Selection" and "Installation queue"). These screen should show the support package level and the OCS Package name.

Click "No" if you are prompted for "Modification Adjustment Transports" and confirm the installation process ("Add-On ITG … is being installed") on the next screen.

Click "Finish" to complete the process after the software component has been installed.

3.1.3 Install ITU

Execute transaction SAINT and navigate to Installation Package -> Load Packages -> EPS Files from Application Server and confirm the Upload. After the Upload start the Installation process by clicking the "Start" button.

Choose „ITU" from the installable Add-on packages and click the „Continue" button and also continue the process by clicking the "Continue" button on the next screens ("Support

Package Selection" and "Installation queue"). These screen should show the support package level and the OCS Package name.

Click "No" if you are prompted for "Modification Adjustment Transports" and confirm the installation process ("Add-On ITU ... is being installed") on the next screen.

Click "Finish" to complete the process after the software component has been installed.

3.1.4   Install ITO

Execute transaction SAINT and navigate to Installation Package -> Load Packages -> EPS Files from Application Server and confirm the Upload. After the Upload start the Installation process by clicking the "Start" button.
Choose „ITO" from the installable Add-on packages and click the „Continue" button and also continue the process by clicking the "Continue" button on the next screens ("Support Package Selection" and "Installation queue"). These screen should show the support package level and the OCS Package name.

Click "No" if you are prompted for "Modification Adjustment Transports" and confirm the installation process ("Add-On ITO ... is being installed") on the next screen.

Click "Finish" to complete the process after the software component has been installed.

3.1.5   Install ITR

Execute transaction SAINT and navigate to Installation Package -> Load Packages -> EPS Files from Application Server and confirm the Upload. After the Upload start the Installation process by clicking the "Start" button.

Choose „ITR" from the installable Add-on packages and click the „Continue" button and also continue the process by clicking the "Continue" button on the next screens ("Support Package Selection" and "Installation queue"). These screen should show the support package level and the OCS Package name.

Click "No" if you are prompted for "Modification Adjustment Transports" and confirm the installation process ("Add-On ITR ... is being installed") on the next screen.

Click "Finish" to complete the process after the software component has been installed.

3.1.6   Verification

Please verify that the software component versions listed in section 2 "Versions and Prerequisites" have been installed.

3.2   SAP Business Systems

RDM installed on SAP Business Systems (which are not MDG based) delivers functionalities which help to consolidate, synchronize and govern reference data. For consolidation the SAP Business system acts as a sender, for synchronization and governance it acts as a receiver.

Depending on the implementation scenario the Software Components ITG and ITO need to be installed on one or more SAP Business Systems. Execute the activities described below for each SAP Business System.

Important Note: Based on the reduced functionality of RDM on SAP Business Systems, software components ITR and ITU (which are SAP MDG based and deliver additional functionalities) are not required on any SAP Business System and must not be installed. Please use installation file archives (SAR format). See next section for more details.

3.2.1   Upload Installation or Upgrade files

Upload the Installation files for the Software Components ITG and ITO to the installation directory of the Application Server (e.g. .../EPS/in).

Installation files are also delivered as archive files (using the SAR format). For the installation or the upgrade of RDM on the business systems please use "RDM_BUSSYS" archives. For upgrading from RDM 2204 to RDM 2210: "RDM_BUSSYS_R2210_upgrade_from_R2204.SAR". Using the correct archive files ensures the installation or upgrade of the correct software components and software component versions.

3.2.2   Install ITG

Execute transaction SAINT and navigate to Installation Package -> Load Packages -> EPS Files from Application Server and confirm the Upload. After the Upload start the Installation process by clicking the "Start" button.

Choose „ITG" from the installable Add-on packages and click the „Continue" button and also continue the process by clicking the "Continue" button on the next screens ("Support Package Selection" and "Installation queue"). These screen should show the support package level and the OCS Package name.

Click "No" if you are prompted for "Modification Adjustment Transports" and confirm the installation process ("Add-On ITG ... is being installed") on the next screen.

Click "Finish" to complete the process after the software component has been installed.

3.2.3   Install ITO

Execute transaction SAINT and navigate to Installation Package -> Load Packages -> EPS Files from Application Server and confirm the Upload. After the Upload start the Installation process by clicking the "Start" button.

Choose „ITO" from the installable Add-on packages and click the „Continue" button and also continue the process by clicking the "Continue" button on the next screens ("Support Package Selection" and "Installation queue"). These screen should show the support package level and the OCS Package name.

Click "No" if you are prompted for "Modification Adjustment Transports" and confirm the installation process ("Add-On ITO ... is being installed") on the next screen.

Click "Finish" to complete the process after the software component has been installed.

3.2.4   Verification

Please verify that the software component versions listed in section 2 "Versions and Prerequisites" have been installed.

4   Deinstallation

4.1   Deinstallation from SAP MDG

Deinstallation of RDM software component ITR is not possible due to missing deinstallation support for SAP MDG Add-Ons. This also means that software components ITO, ITG and ITU cannot be deinstalled from the SAP MDG system.

In order to obtain more information about this, please contact: support@itego.de - Subject: "RDM Deinstallation".

4.2   Deinstallation from SAP Business Systems

Deinstallation of RDM software components ITO and ITG is possible from SAP Business Systems.

Prerequisite: Ensure that the Local Staging Area has been cleared from any maintained reference data object. For this execute transaction /ITR/STAGING for all object types. Refer to "Reference Data Management for SAP MDG - Functional Documentation" for further details.

Start and finalize the deinstallation by using transaction "SAINT", selecting "Uninstallable components" -> ITO -> Start and selecting "Uninstallable components" -> ITG -> Start.