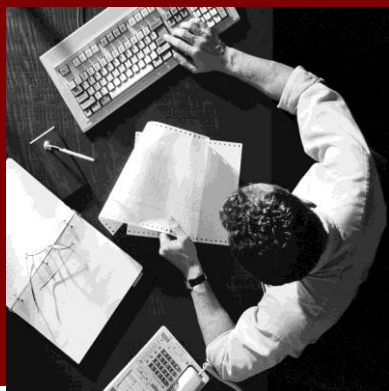




Master Guide

SAP NetWeaver
Master Data
Management
Global Data
Synchronization
Option 2.1

October 2020

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Documentation on the SAP Help Portal

You can find this documentation at the following Internet address:
help.sap.com

Typographic Conventions

Type Style	Represents
Example Text	Words or characters that appear on the screen. These include field names, screen titles, pushbuttons as well as menu names, paths and options.
	Cross-references to other documentation
Example text	Emphasized words or phrases in body text, titles of graphics and tables
EXAMPLE TEXT	Names of elements in the system. These include report names, program names, transaction codes, table names, and individual key words of a programming language, when surrounded by body text, for example, SELECT and INCLUDE.
Example text	Screen output. This includes file and directory names and their paths, messages, names of variables and parameters, source code as well as names of installation, upgrade and database tools.
Example text	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example text>	Variable user entry. Pointed brackets indicate that you replace these words and characters with appropriate entries.
EXAMPLE TEXT	Keys on the keyboard, for example, function keys (such as F2) or the ENTER key.

Icons

Icon	Meaning
	Caution
	Example
	Note
	Recommendation
	Syntax

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1 Getting Started

This SAP NetWeaver Master Data Management global data synchronization option (SAP NetWeaver MDM GDS) Master Guide provides a central starting point for the technical implementation of the SAP NetWeaver MDM GDS option. It lists all activities for installing and configuring SAP NetWeaver MDM GDS.

SAP MDM GDS consists of the global data synchronization (GDS) business scenario.

This Master Guide provides information about which components and which guides are required during this process.

- **Getting Started** contains valuable information about using this document and related information (documentation and SAP Notes) essential to the installation and upgrade process.
- **MDM GDS Implementation** contains the following information:
 - A short introduction to SAP NetWeaver MDM GDS and its business scenario
 - The software component matrix that provides the information about which business scenario uses which component
 - Minimal system landscape
 - Information about the overall installation sequence and subsequent steps
 - References to related installation and configuration guides
- **Software Components Overview** contains information about the roles of the different components in the GDS business scenario.
- Depending on the number of business processes to be implemented, many different installation and configuration guides are required during the business scenario implementation process. In **References**, you can find an overview of all required documentation referenced in this master guide.



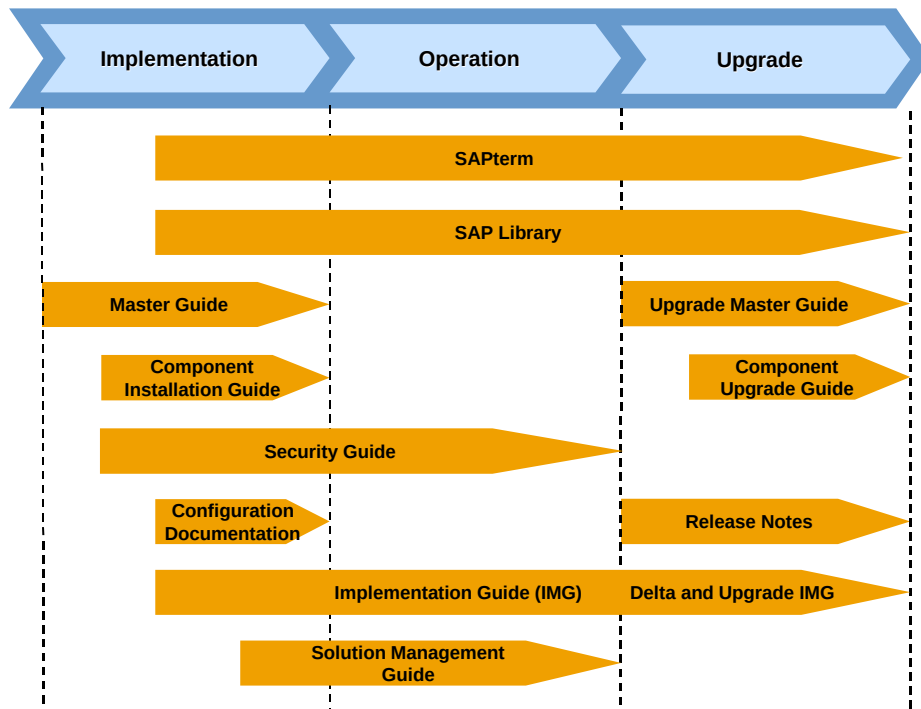
You can find current information about the technical implementation of SAP NetWeaver MDM GDS and the latest Installation and Configuration Guides on the SAP Help Portal at <http://help.sap.com>. We strongly recommend that you use the documents available here. The guides are updated on a regular basis.

1.1 The Main SAP Documentation Types

1.1 The Main SAP Documentation Types

The following is an overview of the **most important** documentation types that you need in the various phases in the life cycle of an SAP solution.

Documentation types in the software lifecycle



1.1.1 Cross-Phase Documentation

SAPterm

SAPterm is SAP's terminology database. It contains SAP-specific vocabulary in over 30 languages, as well as many definitions and glossary entries in English and German.

- **Target group:**
Relevant for all target groups
- **Current version:**
Located at <http://www.sapterm.com/>

SAP Help Portal

The Help Portal is a collection of function-oriented and process-oriented documentation for SAP components. The SAP Help Portal also contains the business scenario descriptions.

- **Target group:**
Relevant for all target groups

1.1 The Main SAP Documentation Types

- Current version:
Located at <http://help.sap.com>

Implementation Guide (IMG)

The Implementation Guide is a tool for configuring the SAP system to meet customer requirements. Its structure and documentation are component-oriented.

- Target group:
 - Solution consultants
 - Project teams for implementations or upgrades
- Current version:
 - On the *SAP Easy Access* screen of the SAP system under *Tools* → *Customizing* → *IMG*

Security Guide

The Security Guide describes the settings for the medium security level and offers suggestions regarding increasing security levels. A collective security guide is available for the SAP NetWeaver technologies. This document contains general guidelines and suggestions regarding system security. Other technologies and individual applications have their own security guides.

- Target group:
 - Technology consultants
 - Solution consultants
 - Project teams for implementations or upgrades
- Current version:
 - Located at <http://help.sap.com> → *global data synchronization*

1.1.2 Implementation

Master Guide

The Master Guide is the starting point for implementing an SAP solution. It lists the required SAP components and third-party applications that are required for each business scenario. It provides scenario-specific descriptions of preparation, execution, and follow-up of an implementation. It also contains references to other documents, such as component installation guides and SAP Notes.

- Target group:
 - Technology consultants
 - System administrators
 - Project teams for implementations
- Current version:
 - Located at <http://help.sap.com> → *global data synchronization*

1.1 The Main SAP Documentation Types

Installation Guide

The Installation Guide describes the technical implementation of an SAP component, taking into account the combinations of operating systems and databases. It does not describe any business-related configuration.

- Target group:
 - Technology consultants
 - Project teams for implementations
- Current version:
 - Located at <http://help.sap.com>→*global data synchronization*

Business Scenario and Configuration Guides

The business scenario and configuration guides describe how to set up the involved components to run business scenarios.

- Target group:
 - Solution consultants
 - Project teams for implementations
- Current version:
 - Located at <http://help.sap.com>→*global data synchronization*

1.1.3 Production Operation

Application Operations Guide

The Application Operations Guide is the starting point for operating an SAP solution. The guide refers users to the tools and documentation that are needed to carry out various tasks, such as monitoring, backup and restore, master data maintenance, transports, and tests. It also refers users to other documents like the Master Guide.

- Target group:
 - System administrators
 - Technology consultants
 - Solution consultants
 - Project teams for implementations or upgrades
- Current version:
 - Located at <http://help.sap.com>→*global data synchronization*

1.2 Related Information

1.2.1 SAP Help Portal

The following list contains links to important information for planning the technical implementation of SAP NetWeaver MDM GDS.

List of Related Information

Content	Location on SAP Service Marketplace
Installation and upgrade documentation	http://help.sap.com →global data synchronization
Configuration documentation	http://help.sap.com →global data synchronization
Information about released platforms	https://launchpad.support.sap.com/
Information about planning the network infrastructure and network security	• http://help.sap.com→SAP NetWeaver 7.5→Configuring Composition Environment • http://help.sap.com→SAP Security Guides
Information about hardware sizing, calculation of hardware requirements, and the quick sizer tool	http://help.sap.com →global data synchronization
Information and documentation about high-availability issues for a multitude of areas, such as SAP systems, databases, tools, and network.	http://help.sap.com →global data synchronization→Application Operations Guide
Information about the installation of SAP NetWeaver	http://help.sap.com →NetWeaver 7.5→Installation Guides
Information about performance	http://help.sap.com →NetWeaver 7.5→Performance
Documentation on SAP Help Portal	http://help.sap.com → SAP NetWeaver Master Data Management, Global Data Synchronization Option

1.2.2 SAP Solution Manager

SAP provides the SAP Solution Manager as the recommended platform to efficiently support the implementation of your solution. Using SAP Solution Manager significantly accelerates the implementation process and helps you to achieve your business goals. At the same time, SAP is able to deliver support services based on the business scenarios that have been designed and documented in SAP Solution Manager. Implementation content for your solution may further accelerate the implementation process. For information about the availability of content specifically tailored to your solution, see SAP Service Marketplace at <http://service.sap.com/solutionmanager>.

1.3 Important SAP Notes

1.4 History of Changes

You **must** read the SAP Installation Notes **before** you start the installation. These SAP Notes contain the most recent information on the installation, as well as corrections to the installation documentation.

Make sure that you have the current version of each SAP Note, which you can find on SAP Service Marketplace at <https://launchpad.support.sap.com/>.

List of Related SAP Notes

SAP Note Number	Title	Description
1425531	Central Note for SAP NetWeaver MDM GDS 2.1	Central Note for SAP NetWeaver MDM GDS 2.1
2868604	Maintenance Strategy for SAP NW MDM 7.1 used in Product SAP NetWeaver Master Data Management, Global Data Synchronization Option	Released October 2020.

1.4 History of Changes

The Master Guide is regularly updated on the SAP Help Portal at <http://help.sap.com> → *global data synchronization*.



Make sure you have the latest version of the Master Guide by checking the SAP Help Portal immediately before starting the installation.

The following table provides an overview of the most important changes made in each version.

Version	Date	Description
1.0	05/17/2010	Initial version
1.01	03/24/2017	Updated for SP05. Updated reference from SAP NetWeaver 7.0 to SAP NetWeaver 7.1.
1.02	10/06/2020	Updated for SP06. Updated to SAP NetWeaver 7.5.

2 SAP NetWeaver MDM GDS Implementation

2.1 Business Scenario Overview

You can use the global data synchronization (GDS) business scenario to maintain and exchange trade item data with the Global Registry (GS1), and with your retail partners using the 1Sync or the GS1 data pool.

The aim of the GDS business scenario is to minimize mistakes and to ensure continued synchronization of product information throughout the supply chain, enabling suppliers and retailers to reduce errors and data inaccuracies when ordering, shipping, and invoicing products.

The business scenario consists of the following processes:

Creating or Changing Items Based on Materials

- Retrieve trade item information from the back-end system(s) for processing in the GDS Console
- Create and enhance data synchronization-specific data in the GDS Console and store this data

Synchronizing Data with a Data Pool and Trade Partners

- Register data with and publish data to the data pools and the global registry
- Manage publication of trade item data between the suppliers and the suppliers' trade partners

2.2 Software Components

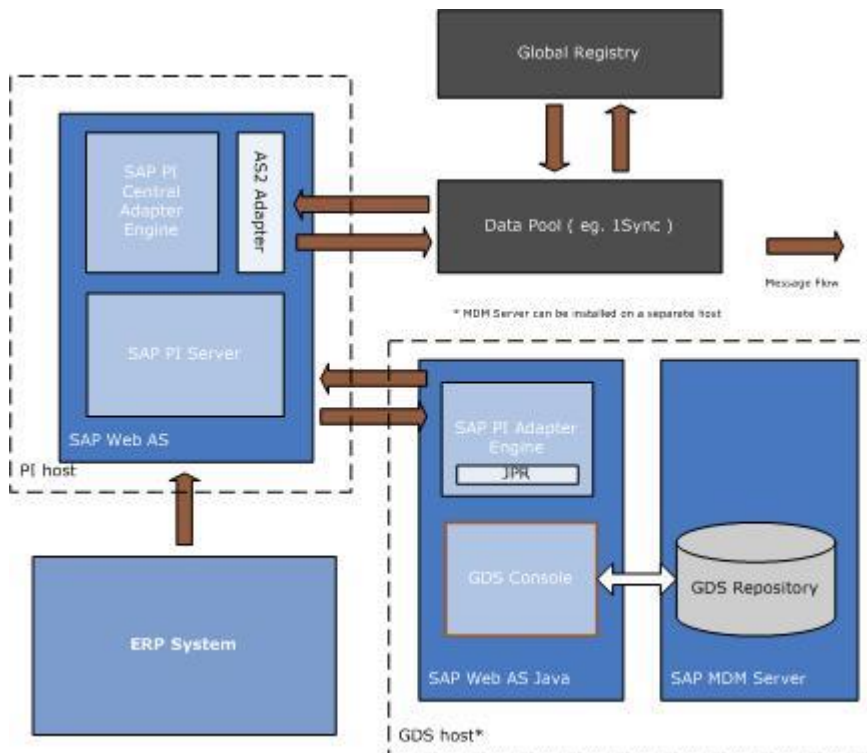
An overview of the components used in the global data synchronization (GDS) business scenario is provided in the following table:

Business Scenario	Software Components	Implementation and Configuration Process
Global Data Synchronization	- ERP system SAP R/3 (4.6C as of SP 50, 4.7 as of SP 24) or SAP ECC (5.0 as of SP7) - At least SAP NetWeaver 7.5 SP17 - MDM Server 7.1 SP21 (delivered with GDS) - MDM Console 7.1 SP21 (delivered with GDS) - MDM Change Tracker (delivered with GDS) - GDS Core 2.1 - GDS Portal Content 2.1 - GDS Tools 2.1 - GDS Console 2.1 (GDS UI 2.1, the user interface) - MDM Content GDS 2.1 (delivered with GDS) - At least SAP NetWeaver 7.5 SP17 - PI Content for GDS 2.1 - One of the following external data pools (third-party): 1Sync 6.3 or higher - SA2, supporting version 2.3 or higher of BMS	See Section Implementation Sequence .

- 2.3 Technical Landscape

The figure below illustrates the components needed for the GDS business scenario and how they interact when the processes in the GDS business scenario are performed, and is followed by an explanation:

GDS 2.1 Technical Landscape



The GDS Console is deployed on the SAP NetWeaver 7.5 SP17 Java Application Server, which is linked to an SAP J2EE adapter engine to send and receive messages. You can use an existing SAP NetWeaver 7.5 SP17 Java Application Server running other applications in parallel and deploy the GDS Console on it. For operational reasons, however, you might consider using an application server exclusively for the GDS Console. The term “GDS host” is used in this guide for the host on which the application server for the GDS Console is installed.

If there is already an SAP NetWeaver PI Integration Server in your system landscape, you can use it to run the GDS business scenario, as long as the minimum support package requirements are fulfilled. The host on which the PI Integration Server is installed is referred to as the “PI host”.

Although it is technically possible, for operational reasons we recommend that you do not install all components on a single host.

Note that multiple system landscapes for GDS can share the same Integration Server.

2.2 Software Components



When installing the SAP NetWeaver 7.5 Java server and the SAP NetWeaver MDM Server on different hosts, you should consider the following security limitation of the SAP NetWeaver MDM 7.1 SP21 server: the communication channel of the MDM server is not encrypted. This means that the communication between the GDS console and the MDM server is not encrypted.

For the AS2 Adapter, there are several deployment options:

1. **AS2 Adapter on GDS host:** Installation on the J2EE Adapter Engine of the SAP NetWeaver 7.5 SP17 Java Application Server, where GDS Console is installed. This is not recommended due to Firewall issues.
2. **AS2 Adapter on SAP NetWeaver PI host:** Installation on the central J2EE Adapter Engine of the PI Integration Server.
3. **AS2 Adapter on separate host:** Installation on a J2EE Adapter Engine on a separate SAP NetWeaver 7.5 SP17 Java Application Server (for example, in the demilitarized zone). This is the default implementation.

The GDS Console utilizes a single MDM repository to store trade items and other application data. The MDM Server for this repository can be either installed on the GDS host or on a separate host.

For the deployment options of the other MDM components, including the database management system for the MDM Server see the master guide for SAP NetWeaver MDM 7.1 SP21 on the SAP Help Portal at <http://help.sap.com> → *SAP NetWeaver Master Data Management*.

2.3.1 Hardware Requirements

For more information about sizing for the required hosts for installing SAP NetWeaver MDM and the database management system, see the Sizing Guide at <http://help.sap.com>.

The sizing for the GDS host is derived from the same guide. To carry out sizing, use the following information:

- For the GDS repository type, choose *Standard*. For more information, see the Sizing Guide for SAP NetWeaver MDM 7.1 at <http://help.sap.com> → *SAP NetWeaver Master Data Management*.
- For the GDS Console, the same CPU and memory sizing rules apply as for the MDM server.
- However, the minimum requirements for SAP NetWeaver 7.5 SP17 Java Application Server must be fulfilled.

2.3.2 Software Requirements

The GDS Console running on an SAP NetWeaver 7.5 SP17 Java Application Server supports the same operating system and database combinations as a standard SAP NetWeaver 7.5 Application Server for Java.

If you want to install the MDM server on the same host as the GDS Console, you must follow the recommendations regarding the operating system and database management system combinations supported by the MDM server.

The AS2 Adapter may have certain restrictions on the supported platform. If you want to install the adapter on the GDS host, you must consider this aspect.

2.4 Implementation Sequence

This section lists the steps (installation, technical configuration, and application configuration) required to implement the business scenario.

2.4.1 Installation

This section describes how to install the components for SAP NetWeaver MDM GDS. All components are mandatory.



This guide assumes that you have already installed an ERP system (SAP R/3 or SAP ECC).

Make sure you follow the specified order for installing the components. The first and the second steps can be done together.

No.	Action	Comments and Subsequent Steps
1	Install at least SAP NetWeaver 7.5 SP17 Java Application Server on the GDS host and apply the required Support Packages. For the required guides, see the SAP Help Portal at http://help.sap.com → SAP NetWeaver 7.5 → <i>Configuring Composition Environment</i>	Start the installation with SAP NetWeaver 7.5 SP17 and update using the latest Support Package.
2	On the SAP NetWeaver 7.5 SP17 Java Application Server, on which you later install the GDS Application's components, install the SAP NetWeaver Exchange Infrastructure Component <i>J2EE Adapter Engine</i> and apply the required Support Packages. For more information, see help.sap.com → SAP NetWeaver 7.5 → <i>Adapter Engine (Java EE) on <operating System> for SAP NetWeaver 7.5</i>. Choose the appropriate installation guide for your operating system.	The J2EE Adapter Engine must be updated to the same Support Package level as the PI Integration Server.
3	Install the MDM Server and MDM Console as described in the <i>SAP NetWeaver MDM 7.1 Installation Guide</i>. See help.sap.com → SAP Netweaver Master Data Management	

2.4 Implementation Sequence

	7.1.	
4	Unarchive the repository. See the <i>MDM Console Reference Guide</i> at help.sap.com → <i>SAP Netweaver Master Data Management 7.1</i>.	
5	Install and configure the MDM Change tracker. See the required guide help.sap.com → <i>SAP Netweaver Master Data Management 7.1</i>. See also the <i>Configuration Guide for GDS 2.1</i> at help.sap.com → <i>SAP Netweaver Master Data Management, Global Data Synchronization Option</i>.	
6	If there is not yet a PI Integration Server in your landscape, install SAP NetWeaver Exchange Infrastructure (SAP EHP1 for SAP PI 7.1) on the PI host and apply the required Support Packages. For more information, see help.sap.com → <i>SAP NetWeaver 7.5 → Adapter Engine (Java EE) on <operating System> for SAP NetWeaver 7.5</i>. Choose the appropriate installation guide for your operating system.	
7	On the SAP NetWeaver 7.5 SP17 Java Application Server, on which you will later install the GDS application's components, install the MDM Java Connector, as described in the <i>SAP NetWeaver Master Data Management 7.1 Installation Guide</i>. See the required guide at help.sap.com → <i>SAP Netweaver Master Data Management 7.1</i>.	You must deploy two SDA files with SDM: - <code>com.sap.mdm.tech.mdm4j.sda</code> - <code>com.sap.mdm.tech.connector.sda</code>
8	Import the PI Content for GDS in the PI Integration Builder. Import the design objects as described in <i>Configuring Process Integration After Installation</i> in the SAP NetWeaver 7.5 documentation on SAP Help Portal at https://help.sap.com.	You can download the PI Content for GDS at help.sap.com → <i>SAP Netweaver Master Data Management, Global Data Synchronization Option → PI Content GDS 2.1</i>. Choose the appropriate guide.
9	Install the AS2 adapter.	Follow the installation instructions from the adapter provider.
10	Install the GDS Application's components as described in the <i>Installation Guide GDS 2.1</i>. See help.sap.com → <i>SAP Netweaver Master Data Management, Global Data Synchronization Option</i>.	

2.4.2 Configuration

For more information about configuring GDS 2.1, see help.sap.com → *SAP Netweaver Master Data Management, Global Data Synchronization Option → Configuration Guide GDS 2.1*.

3 Software Components Overview

This section provides additional information about the most important software components of SAP NetWeaver MDM GDS.

3.1 SAP Components

3.1.1 Application Components

- **ERP Back-end System (SAP R/3 or SAP ECC)**
Where you create the material master data and from where you make the initial data transfer along with subsequent item status changes to the GDS Console through a system of messages.
- **GDS Console**
A Java-based application running on SAP NetWeaver Application Server. The Console is the user interface for SAP NetWeaver MDM GDS. Connected to the back-end system through SAP NetWeaver Process Integration (SAP NetWeaver PI) connectors, the GDS Console imports trade item data for enhancement and storage, registration with the data pools and global registry, and subsequent publication to trading partners.
- **GDS Core**
A Java-based application core running on an SAP NetWeaver Application Server. This component manages the SAP NetWeaver PI and MDM application programming interface based connection to the back-end system and to other application components (for example, MDM, PI, and external parties).
- **GDS Portal Content**
Predefined, packaged Java-based application content integrating the GDS application with the SAP NetWeaver Portal. It gives full GDS functionality through the SAP NetWeaver Portal.
- **GDS Tools**
Miscellaneous tools required to create new GDS repository databases in the back-end system or upgrade repositories.
- **MDM Server and Database**
The product and item repository for SAP NetWeaver MDM GDS. It includes the functions required for backup and restoration, and for metadata management.
- **MDM Console**
An application used to administer and monitor the MDM Server software, and to back up and restore the product catalogs.
- **MDM Change Tracker**
The MDM Change Tracker is an application that provides a convenient UI for displaying and viewing changes as stored in the MDM change history database.
- **MDM Content for GDS**
Design objects and utilities to manipulate MDM repositories and schemas. Support establishing connection to an MDM repository and its database. Including but not limited to JDBC drivers for Microsoft SQL Server databases.
- **PI Content for GDS Console**
Design objects, such as interface descriptions and mappings for SAP NetWeaver PI.

3.2 Non-SAP Components

This content is used to enable the data exchange between the GDS Console, your ERP system, and the external data pool.

3.1.2 Technology Components

- ERP Back-end System (SAP R/3 or SAP ECC)
See definition above.
- GDS Console
See definition above.
- MDM Server and Database
See definition above.
- MDM Console
See definition above.
- MDM Change Tracker
See definition above.
- SAP NetWeaver Process Integration (SAP NetWeaver PI)
SAP NetWeaver PI is responsible for the secure transfer and synchronization of messages between the GDS Console and the data pools. PI is also used to transfer data between the backend system and the GDS Console.
- MDM Change tracker
See definition above.

3.2 Non-SAP Components

- AS2 Adapter
A Java-based application running on SAP NetWeaver 7.5 SP17 Java Application Server (Web AS). The adapter enables the transfer and synchronization of messages between the GDS Console and the data pools through SAP NetWeaver PI.
- 1Sync Data Pool
The 1Sync data pool has advanced data synchronization suites for the global collaboration of Trade Partners. For more information, see <https://www.1worldsync.com/>.
- SA2 Data Pool
The SA2 data pool has advanced data synchronization suites for the global collaboration of Trade Partners. For more information, see <https://www.atrify.com/>.

4 References

The following table contains referenced documentation for SAP NetWeaver MDM GDS and the GDS business scenario.

Title	Purpose	Where to Find It
<i>SAP NetWeaver 7.5 SP17 and Related Documentation</i>	Installation of SAP SAP NetWeaver 7.5 SP17 Java Application Server (Web AS)	See SAP Help Portal at help.sap.com → SAP SAP NetWeaver 7.5 → Configurig Composition Environment.
<i>GDS 2.1 - Business Scenario Decription</i>	GDS business scenario	See SAP Help Portal at help.sap.com → SAP NetWeaver Master Data Management, Global Data Synchronization Option → Business Scenario Description.
<i>GDS 2.1 - Configuration Documentation</i>	Configuration of the GDS business scenario	See SAP Help Portal at help.sap.com → SAP NetWeaver Master Data Management, Global Data Synchronization Option → Configuration Guide
<i>GDS 2.1 - Installation Guide</i>	Installation of GDS Console	See SAP Help Portal at help.sap.com → SAP NetWeaver Master Data Management, Global Data Synchronization Option → Installation Guide
<i>SAP NetWeaver MDM 7.1 - Installation Guide</i>	Installation of MDM Server, Administration, and Client components	See SAP Help Portal at help.sap.com → SAP NetWeaver Master Data Management.
<i>SAP NetWeaver MDM 7.1 - Sizing Guide</i>	Sizing of the hosts for installing MDM components	See SAP Help Portal at help.sap.com → SAP NetWeaver Master Data Management.
<i>SAP NetWeaver MDM 7.1 - Master Guide</i>	Overview of requirements for SAP MDM	See SAP Help Portal at help.sap.com → SAP NetWeaver Master Data Management.