

GDS Solution Operations Guide



SAP NetWeaver®

MDM 5.5 SP05

GDS1.0 SP06

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#### **Documentation on SAP Service Marketplace**

You can find this documentation at  
<https://service.sap.com/installMDM>

## Typographic Conventions

## Icons

Type Style	Represents	Icon	Meaning
<i>Example Text</i>	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options.  Cross-references to other documentation.		Caution
<b>Example text</b>	Emphasized words or phrases in body text, graphic titles, and table titles.		Example
EXAMPLE TEXT	Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.		Note
Example text	Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.		Recommendation
<b>Example text</b>	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.		Syntax
<Example text>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.		
EXAMPLE TEXT	Keys on the keyboard, for example, F2 or ENTER.		

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# SAP MDM GDS Solution Operation Guide

## 1 Getting Started



This guide does not replace the daily operations handbook that we recommend customers create for their specific production operations.

### About this Guide

Designing, implementing, and running your mySAP solution at peak performance 24 hours a day has never been more vital for your business success than now.

This guide provides a starting point for managing your mySAP solutions and maintaining and running them optimally. It contains specific information for various tasks and lists the tools that you can use to implement them. This guide also provides references to the documentation required for these tasks, so you will sometimes also need other guides such as the *Master Guide*, *Technical Infrastructure Guide*, and SAP Library.

### Target Groups

- Technical consultants
- System administrators
- Solution consultants
- Support specialists

## Important SAP Notes



Check regularly to see which SAP Notes are available for the Solution Operation Guide.

### Important SAP Notes

SAP Note Number	Title	Comment
809840	MDM GDS Master Guide	
994304	GDS 1.0 SP05: Release Note (inclusive Upgrade Information)	
814858	MDM GDS 1.0 Release Restriction Note	
1025367	GDS 1.0 SP05 - Software Interdependencies	

## History of Changes



Make sure that you use the **current** version of the Solution Operation Guide.

The current version of the Solution Operation Guide can be found at SAP Service Marketplace at:

**service.sap.com/instguidesNW04** → *Operations* → *SAPMDM* → *SAP MDM 5.5 Documentation Center*.

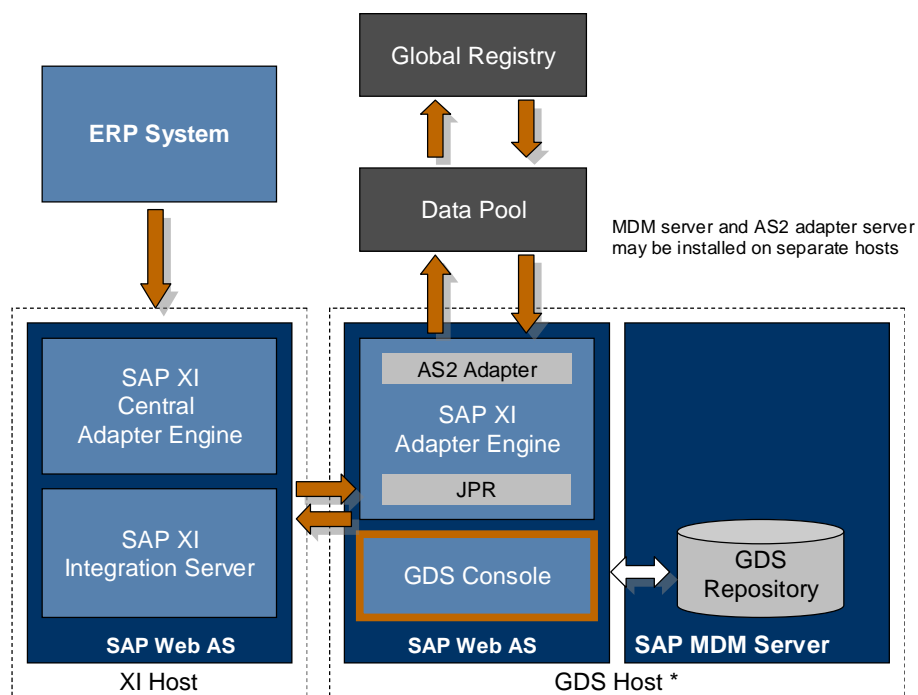
Under the heading *Operations*, refer to the *GDS 1.0 Solution Operation Guide*.

The following table provides an overview of the most important changes in each of the previous versions of this manual.

<b>Version</b>	<b>Important Changes</b>
1.00	First version of the MDM GDS Solution Operation Guide
1.10	Updates for SP03
1.20	Updates for SP04
1.30	Updates for SP05

## 2 Technical System Landscape

The following diagram describes the system landscape in which MDM GDS operates.



SAP MDM GDS consists of the following components:

- Back-end system (mySAP ERP, SAP ECC or any other system that can send messages to XI)
- SAP Exchange Infrastructure (SAP XI)
- MDM Server (Release 5.5 SP04) and underlying database (MS SQL, Oracle or DB2)
- MDM Console (Release 5.5 SP04)
- GDS Console (Java-based application running on SAP Web Application Server (SAP Web AS))
- Third-party components
  - Seeburger AS2 adapter
  - Transora or UCCnet data pools (both part of 1Sync)

For more information, refer to the *SAP MDM GDS Master Guide* at:

[service.sap.com/instguidesNW04](http://service.sap.com/instguidesNW04) → *Planning* → *SAP MDM* → *SAP MDM 5.5 Documentation Center*. Under the heading *Planning*, refer to the *GDS 1.0 Master Guide*.

## Related Documentation

The following table lists where you can find more information about the technical system landscape:

Topic	Guide/Tool	Location on SAP Service Marketplace ( <a href="http://service.sap.com">service.sap.com</a> )
SAP MDM GDS operates with SAP NetWeaver '04, and uses major components of it; key operation information about the individual SAP NetWeaver 04 components used by SAP MDM GDS is provided centrally.	<i>SAP NetWeaver Technical Operations Manual</i>	<a href="http://service.sap.com/instguidesNW04">service.sap.com/instguidesNW04</a> <i>Operations → Cross NW → Technical Operations Manual - SAP NetWeaver</i>
General information	Master Guide	<a href="http://service.sap.com/instguidesNW04">service.sap.com/instguidesNW04</a> <i>Planning → SAP MDM → SAP MDM 5.5 Documentation Center.</i> Under the heading <i>Planning</i> , refer to the <b>GDS 1.0 Master Guide</b>
Installation information	Installation Guide	<a href="http://service.sap.com/instguidesNW04">service.sap.com/instguidesNW04</a> <i>Installation → SAP MDM → SAP MDM 5.5 Documentation Center.</i> Under the heading <i>Installation</i> , refer to the <b>GDS 1.0 Installation Guide</b>
Configuration	Configuration Guide	<a href="http://service.sap.com/instguidesNW04">service.sap.com/instguidesNW04</a> <i>Installation → SAP MDM → SAP MDM 5.5 Documentation Center.</i> Under the heading <i>Installation</i> , refer to the <b>GDS 1.0 Configuration Guide</b>
Security	Security Guide	<a href="http://service.sap.com/instguidesNW04">service.sap.com/instguidesNW04</a> <i>Operations → SAP MDM → SAP MDM 5.5 Documentation Center.</i> Under the heading <i>Operations</i> , refer to the <b>GDS 1.0 Security Guide</b>



## 3 Monitoring of MDM GDS

Within the management of SAP NetWeaver, monitoring is an essential task. A section has therefore been devoted solely to this subject.

You can find more information about the underlying technology in the *Technical Operations Manual* for SAP NetWeaver in the *SAP Library* under *mySAP Technology Components*.

### GDS Console

Trace files and log files are essential for analyzing problems. Use the Visual Administrator on the J2EE Engine to access the trace and log files for MDM GDS. The log files can be found at one of two locations:

#### Viewing the GDS Console Log

1. Open the Visual Administrator,  
For example, on Windows platform run:  
`<Drive>:\user\sap\<SAPSID>\<Instance_Name>\j2EE\admin\go.bat`
2. Connect to the J2EE engine on which you have deployed the GDS application.
3. In the left pane navigate to the log viewer service:  
`Server<server id>>Services>Log Viewer`
4. In the right pane navigate to:  
`Cluster<cluster name>>server<server ID>><WAS installation folde><SAPID>j2ee\cluster\server>log>`
5. View the errors in the defaultTrace.trc or applications.log:  
For more details on viewing logs see the SAP Help Portal at:  
*help.sap.com* → *SAP Library* → *SAP NetWeaver* → *Application Platform* → *Java Technology in SAP Web Application Server* → *Administration Manual* → *Server Administration* → *Logging* → *Log Viewer* → *Log Viewer User Interface* → *Viewing Logs*.



An administrator who has been assigned the *Admin* role in GDS, can download the trace and configuration files directly from the GDS Console using the *Download Dump* button at the top of the GDS Console screen, in order to send them to a support group.

### MDM Log Files

Trace files and log files are essential for analyzing problems. The MDM Console provides several log files that can be examined in the MDM Console:

Log Files	Description
-----------	-------------

SAP MDM Servers → <Server> → Logs → Audit	Logs for logon attempts on the MDM Server
SAP MDM Servers → <Server> → Logs → Server	Logs for all actions on the MDM Server
SAP MDM Servers → <Server> → Logs → Assertion	Logs for all errors on the MDM Server
SAP MDM Servers → <Server> → <Repository> → Admin → Reports	Logs for all activities (such as loading, unloading, backing up) on the MDM Server

For more information, see the *MDM 5.5 SP04 - Console Reference Guide*.

CCMS availability monitoring is available for GDS using transaction RZ20 either on R3 or the Web Application Server (Web AS) with an ABAP stack that will be used as a central monitoring system (CEN).

For more information see:

[service.sap.com/instguidesnw04](http://service.sap.com/instguidesnw04) → *Installation* → *SAP MDM* → *SAP MDM 5.5 Documentation Center*.

Under the heading *Operations*, refer to the following documents:

- *MDM 5.5 SP04 - Use CCMS Monitoring Enhancements*
- *MDM 5.5 SP04 - Install and Configure MDM CCMS Monitoring on Windows and UNIX*

## 4 Management of SAP MDM GDS

SAP provides you with an infrastructure to help your technical support consultants and system administrators effectively manage all SAP components and complete all tasks related to middleware technology.

### 4.1 Administration Tools of Software Components

The following software administration tools can be used in the GDS Console:

#### Defining UI Configurations

For more information: *SAP Service Marketplace - SAP MDM 5.5 Documentation Center* → *Reference Documentation* → *GDS 1.0 Console User Guide* → *Section on UI Configurations*

#### Managing GDS Metadata

For more information: *SAP Service Marketplace - SAP MDM 5.5 Documentation Center* → *Reference Documentation* → *GDS 1.0 Console User Guide* → *Sections:*

- *Managing GDS Metadata*
- *Customizing the GDS Application*

### 4.2 Starting and Stopping



For general information about starting and stopping SAP systems, see section *Starting and Stopping SAP Systems and Instances* in the *SAP NetWeaver Technical Operations Manual* on the SAP Service Marketplace (section on *Administration*) at:

[service.sap.com/instguidesNW04](http://service.sap.com/instguidesNW04) → *Operations* → *Cross NW*  
→ *Technical Operations Manual – SAP NetWeaver*.

## Start and Stop Tools

Software Component	Tools
SAP Web AS	<p>Refer to the <i>SAP NetWeaver Technical Operations Manual</i> at:  <a href="http://service.sap.com/instguidesNW04">service.sap.com/instguidesNW04</a> → Operations → Cross NW → Technical Operations Manual - SAP NetWeaver.</p> <p>There, in the section <i>Management of the SAP Web Application Server</i>, refer to the passages:</p> <ul style="list-style-type: none"> <li>• Starting and Stopping the SAP System</li> <li>• Deployment of Applications</li> </ul>
SAP XI	<p>Refer to the <i>SAP NetWeaver Technical Operations Manual</i> at:  <a href="http://service.sap.com/instguidesNW04">service.sap.com/instguidesNW04</a> → Operations → Cross NW → Technical Operations Manual - SAP NetWeaver.</p> <p>There, choose:</p> <p><i>Additional Administration of SAP NetWeaver Components</i> → SAP Exchange Infrastructure → Management of SAP Exchange Infrastructure → Starting and Stopping</p>
MDM Server	<p>Refer to the <i>MDM 5.5 SP04 - Console Reference Guide</i> at:  <a href="http://service.sap.com/instguidesNW04">service.sap.com/instguidesNW04</a> → Operations → SAP MDM → SAP MDM 5.5 Documentation Center</p> <p>There under the heading <i>Reference Documentation</i>, refer to the <i>MDM 5.5 SP04 Console Reference Guide</i>, and look at the following sections:</p> <ul style="list-style-type: none"> <li>• Mounting and Unmounting the MDM Server</li> <li>• Starting and Stopping the MDM Server</li> </ul>
AS2 Adaptor	See relevant <i>Seeburger</i> documentation

## Restarting the GDS Console

1. Open the Visual Administrator,  
For example on Windows platform run:  
`<Drive>:\user\sap\<SAPSID>\<Instance_Name>\j2EE\admin\go.bat`
2. Connect to the J2EE engine on which you have deployed the GDS application.
3. In the left pane, navigate to the *Deploy* service:  
`server<server id>>Services>Deploy`
4. In the right pane at the bottom, click on the *Application* radio button.
5. Select `sap.com/com.sap.mdm.tech.connector`
6. Select the *Stop* application button on the right side, and then the *Start* application button. The line should be marked with a blue check mark.
7. Select `sap.com/GDS`. The line should be marked with a blue check mark.

8. Select the *Stop* application button on the right side, and then the *Start* application button.

For more details see the SAP Help Portal at:

[help.sap.com](http://help.sap.com) → *SAP Library* → *SAP NetWeaver* → *Application Platform* → *Java Technology in SAP Web Application Server* → *Administration Manual* → *Server Administration* → *J2EE Engine Administration* → *Deploy Service* → *Runtime Administration* → *Starting and Stopping an Application*.

## Sequencing

### *Start Sequence:*

- For XI and the AS2 adaptor, the Web Application Server (Web AS) must be running in order to access these components.
- MDM should be started and running before invoking the Web AS for GDS.
- XI and the AS2 adaptor should be started in sequence after MDM.

### *Stop Sequence:*

The stop sequence runs in the reverse order to the above sequence.

## 4.3 Backup and Restore

The backup and restore strategy for SAP MDM GDS consists of two parts:

- **Configuration:**
  - The GDS folder with all the contained configuration files should be backed up.
- **Data:**
  - All GDS data is stored in the database managed by the MDM Server. This data can be backed up and restored using the standard database functions.  
Refer to the relevant database documentation.
  - In the MDM Console, you can archive and unarchive repositories.  
For more information, refer to the *MDM 5.5 SP05 - Console Reference Guide* at:  
[service.sap.com/instguidesNW04](http://service.sap.com/instguidesNW04) → *Operations* → *SAP MDM* → *SAP MDM 5.5 Documentation Center*.  
Under the heading *Reference Documentation*, refer to the *MDM 5.5 SP05 Console Reference Guide*.  
In the section on *Repository Administration*, refer to *MDM Archive and Unarchive*.

## 4.4 System Copy

You have the following means for duplicating data:

- Duplicate Repository.

For more information refer to the *MDM 5.5 SP04 – Console Reference Guide* at:

[service.sap.com/instguidesNW04](http://service.sap.com/instguidesNW04) → Operations → SAP MDM → SAP MDM 5.5 Documentation Center.

Under the heading *Reference Documentation*, find the *MDM 5.5 SP05 Console Reference Guide*.

Refer to the section on *Repository Administration* → *Duplicate Repository*.

- Copy database

For more information, refer to the relevant database documentation.

## 4.5 Required Manual Periodic Tasks

For general information about the periodical tasks to be performed, see the *SAP NetWeaver Technical Operations Manual* on the SAP Service Marketplace at:

[service.sap.com/instguidesNW04](http://service.sap.com/instguidesNW04) → Operations → Cross NW → *Technical Operations Manual - SAP NetWeaver*.

### GDS Console

Task or Transaction	Description	Recommended Frequency
Check GDS log files	<p>Check GDS log and trace files</p> <p>See also the section <a href="#">Monitoring [Page 2]</a> in this document</p> <p>See the <i>GDS Console Installation Guide</i> → <i>Troubleshooting</i></p>	Weekly

### MDM Console

Task or Transaction	Description	Recommended Frequency
Check log files for MDM Server	<p>Check log files - <i>Audit, Server, Assertion</i></p> <p>See <i>MDM 5.5 SP04 - Console Reference Guide</i> → <i>Repository Maintenance</i> → <i>Logs Table</i></p> <p>See also the section <a href="#">Monitoring [Page 2]</a> in this document</p>	Weekly

Check correctness/severity of operations for repository	<p>Check log files for different operations</p> <p>See <i>MDM 5.5 SP04 - Console Reference Guide</i>  → <i>Repository Maintenance</i>  → <i>Logs Table</i></p> <p>See also the section <a href="#">Monitoring [Page 2]</a> in this document</p>	Weekly
Verify repository and repair/compact if necessary	<p>Check MDM repository integrity</p> <p>See <i>MDM 5.5 SP04 - Console Reference Guide</i>  → <i>Repository Administration Operations</i></p>	Monthly

### SAP Exchange Infrastructure (SAP XI)

Task or Transaction	Description	Recommended Frequency
SAP XI messages (Report RSXMB_RESTART_MESSAGES)	<p>Schedule report to resend failed messages.</p> <p>If messages cannot be resent, you must delete them manually. To avoid data errors, resend the corresponding object manually.</p>	Periodic restart
Purge old messages	Archive and purge old messages in order to maintain available disc space	Every 3-6 months

Here, refer to *Additional Administration of SAP Exchange Infrastructure* → *Management of SAP Exchange Infrastructure* → *Periodical Tasks*.

### AS2 Adapter Engine

Task or Transaction	Description	Recommended Frequency
Restart adapter engine	During operation of SAP MDM GDS, the buffer of the adapter engine overflows	Periodic restart
Purge old messages	Archive and purge old messages in order to maintain available disc space	Every 3-6 months

## 4.6 Logging On and Load Balancing

For information about logon and load balancing of SAP NetWeaver 04, see the *SAP NetWeaver Technical Operations Manual* on the SAP Service Marketplace at:

[service.sap.com/instguidesNW04](http://service.sap.com/instguidesNW04) → *Operations* → *Cross-NW* → *Technical Operations Manual – SAP NetWeaver*.

For information about logon to the GDS Console, see section *Logging On to the GDS Console* in [service.sap.com/installMDM](http://service.sap.com/installMDM) → *SAP MDM GDS 1.0 Console User Guide*.

The MDM Server does not require a separate logon.

## 4.7 User Management

The administrator who installs and configures the GDS Console must assign users according to roles, defined using *Role Administration*:

- Administrator: can access all screens, send messages and maintain items
- Editor: can modify items, but cannot access messaging, perform metadata management or configure UI options
- User: can send messages but cannot modify items, perform metadata management or configure UI options

For information about role assignment, refer to the section, *Performing User Management of the GDS Console User Guide*.

The *GDS Console User Guide* can be found at:

[service.sap.com/instguidesNW04](http://service.sap.com/instguidesNW04) → *Operations* → *SAP MDM* → *SAP MDM 5.5 Documentation Center*.

Under the heading *Reference Documentation*, refer to the *GDS 1.0 Console User Guide*



## 5 Transporting the GDS Console Environment

### Use

The GDS Console is initially installed in a *Development Environment*. When it is established that the application is running smoothly, it is transported to a *QA Environment*. Following evaluation that the application is operating properly in this environment, the GDS Console can once again be transported into a *Production Environment*.

### Prerequisites

The GDS Console Application has been installed in the Development Environment on the J2EE engine.



### Procedures

#### For a New Installation

1. Archive the underlying MDM repository in the *Development Environment* using the MDM Console.
2. Run through the installation of the GDS Console as described in the *GDS Console Installation Guide*.
3. Unarchive the repository in the *QA Environment*.
4. Use the MDM Data Manager to delete all records from the GTINs and GTIN Links tables.
5. Copy the GDS folder with all its subfolders and files from the *Development WAS* to the *QA Environment*.
6. Open the Visual Administrator - for example on Windows platform run:  
`<Drive>:\user\sap\<SAPSID>\<Instance_Name>\j2EE\admin\go.bat`
7. Connect to the J2EE engine on which you have deployed the GDS application.
8. Copy the Application Properties from the *Development Environment* to the *QA Environment*

Follow this path to navigate to the *Application Properties*:

```
server<serverid>Services>ConfigurationAdaptor>apps>sapcom>GDS>ap  
pcfg>PropertySheet application.global.properties
```

9. Select the edit mode by clicking on the icon  (pencil and the goggles).
10. Confirm the popup message, Switch to Edit Mode.
11. Select the 'show details of the selected node' icon  and a *Change Configuration* pane opens.
12. On this screen, set the parameters for the application properties file and edit data.
13. Set the parameters for the *QA Environment* (there may be no changes).

14. Use the Visual Admin to restart the MDM connector and GDS Console application.



To transport the GDS Console application from the *QA Environment* to the *Production Environment*, repeat all the above steps.



Ensure to change the GDS schema location to that of the *Production Environment*.

## For Upgrade

15. Run through the upgrade instructions of the GDS Console as described in the *GDS Console Upgrade Guide*.
16. Copy schema changes that were done in the *Development Environment* into the *QA Environment* as follows:
- Run an export of the MDM Schema in the MDM console form the *Development Environment*.
  - Import the schema changes into the *QA Environment* (and then later into the *Production Environment*).
  - Manually add any validations that were added to the *Development Repository* and create in the *QA Environment* (and later do this also in the *Production Environment*).
17. Perform the same data changes that were made in the *Development Environment* into the *QA Environment*, for example additional extension data.
18. Continue with steps 5 - 14 for a *New Installation* as above.

## 6 High Availability

Component	Single Point of Failure	Impact	Additional Information
Back-end system (such as mySAP ERP)	No	No extraction of material data possible	<i>SAP NetWeaver Technical Operations Manual</i> at: <a href="http://service.sap.com/instguidesNW04">service.sap.com/instguidesNW04</a> <i>Operations → Cross-NW → Technical Operations Manual – SAP NetWeaver</i>
SAP Web AS	Yes	GDS Console not available	<i>SAP NetWeaver Technical Operations Manual</i> at: <a href="http://service.sap.com/instguidesNW04">service.sap.com/instguidesNW04</a> <i>Operations → Cross-NW → Technical Operations Manual – SAP NetWeaver</i>
MDM Server and Database	Yes	No access to data	See <i>MDM 5.5 SP04 - Console Reference Guide</i> at:

			<p><a href="http://service.sap.com/instguidesNW04">service.sap.com/instguidesNW04</a>  <i>Operations</i> → <i>SAP MDM</i> → <i>SAP MDM Documentation Center</i></p> <p>Under the heading <i>Operations</i>, refer to the <i>MDM 5.5 SP04 - Console Reference Guide</i></p>
MDM Console	No	No administrator function available	<p>See <i>MDM 5.5 SP04 - Console Reference Guide</i> at:</p> <p><a href="http://service.sap.com/instguidesNW04">service.sap.com/instguidesNW04</a>  <i>Operations</i> → <i>SAP MDM</i> → <i>SAP MDM Documentation Center</i></p> <p>Under the heading <i>Operations</i>, refer to the <i>MDM 5.5 SP04- Console Reference Guide</i></p>
GDS Console 1.0	Yes	<p>GDS Console not available</p> <p>Maintenance of trade items not possible</p>	<p>See <i>GDS 1.0 Console User Guide</i> at:</p> <p><a href="http://service.sap.com/instguidesNW04">service.sap.com/instguidesNW04</a>  <i>Operations</i> → <i>SAP MDM</i> → <i>SAP MDM Documentation Center</i></p> <p>Under the heading <i>Reference Documentation</i>, refer to the <i>GDS 1.0 - Console User Guide</i></p>
SAP XI	No	<p>GDS Console available</p> <p>No communication in system landscape possible</p>	<p><i>SAP NetWeaver Technical Operations Manual</i> at:</p> <p><a href="http://service.sap.com/instguidesNW04">service.sap.com/instguidesNW04</a>  <i>Operations</i> → <i>Cross-NW</i> → <i>Technical Operations Manual – SAP NetWeaver</i></p>
AS2 Adapter (3 <sup>rd</sup> party)	No	<p>GDS Console available</p> <p>No communication with data pool</p>	See documentation of provider
Data Pool (3 <sup>rd</sup> party)	No	<p>GDS Console available</p> <p>No communication with data pool</p>	See documentation of provider

## 7 Software Change Management

Software Change Management standardizes and automates software distribution, maintenance, and testing procedures for complex software landscapes and multiple software development platforms. These functions support your project teams, development teams, and application support teams.

The goal of Software Change Management is to establish consistent, solution-wide change management that allows for specific maintenance procedures, global rollouts (including localizations), and open integration with third-party products.

This section provides additional information about the most important software components.

### GDS Console

For detailed information about the current status regarding Support Packages of single components, see the *GDS Master Guide* at SAP Service Marketplace at:

[service.sap.com/instguidesNW04](https://service.sap.com/instguidesNW04) → *Planning* → *SAP MDM* → *MDM 5.5 Documentation Center*.

Under the heading *Planning*, refer to the *GDS 1.0 - Master Guide*



Do not implement relevant Support Packages during productive operation of SAP MDM.



*SAP Note 1025367* refers to possible interdependencies between single components when implementing a higher Support Package or Patch Level.

Up-to-date information on SAP notes, support package levels, and patches is published at Service Marketplace - SAP Software Distribution Center. See [service.sap.com/swdc](https://service.sap.com/swdc).

### MDM Server

New functions are delivered through new service packs. Updates of the database (enhancements) do not lead to loss of data.

For detailed information about the current status of Support Packages of individual MDM components, see the *MDM Master Guide* on the SAP Service Marketplace at:

[service.sap.com/instguidesNW04](https://service.sap.com/instguidesNW04) → *Planning* → *SAP MDM* → *MDM 5.5 Documentation Center*.

Under the heading *Planning*, refer to the *GDS 1.0 - Master Guide*



Do not implement relevant Support Packages during productive operation of SAP MDM.



*SAP Note* 1025367 refers to possible interdependencies between single components when implementing a higher Support Package or Patch Level.

Up-to-date information on SAP Notes, Support Package levels, and patches is published at Service Marketplace - SAP Software Distribution Center. See [service.sap.com/swdc](http://service.sap.com/swdc).