



How-to Guide
SAP NetWeaver

How To... Register MDM Servers in the SLD

MDM 7.1
Version 1.0
May 2009

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1 Scenario: Installation and Configuration of MDM SLD Registration - Introduction

With MDM 5.5 SP04 or higher, you can inform the **System Landscape Directory (SLD)** that an MDM Server application is installed and running.

SLD

To facilitate the implementation, upgrade, and maintenance of complex system landscapes, the System Landscape Directory creates an overall concept and provides comprehensive information.

SLD consists of both the Component Information and Landscape Description. Component Information describes the overall building blocks of solutions and their combinations and dependencies. Landscape Description gives an exact plan of the system landscape.

CIM

The **Common Information Model** is a standard for managing IT systems. In particular, a standardized, unified management interface can be provided by distributed applications. Management information and functions of any software system can be described with the CIM data model.

SAP systems are described in the SAP **CIM** model according to the CIM rules. SLD is based on SAP CIM. The MDM part of SAP NetWeaver is described in the **MDM CIM** as part of the whole picture of a SAP system landscape. This MDM CIM contains classes needed to declare all MDM components that register with SLD.

PPMS

PPMS stands for **Product and Production Management System**. It handles the marketing, development, manufacturing and delivery of SAP software products. PPMS distinguishes between products and product versions as well as between components and component versions.

Some products and components that are referenced during SLD registration of the various MDM Server components are defined for MDM.

SLD Registration

The MDM system is registered with the System Landscape Directory. Each MDM Server application periodically writes a special file named *sld.xml* in xml format in its home directory on the local machine. This file contains registration information in accordance with the MDM CIM and with software products and components defined in PPMS.

Once the xml file has been written, a dedicated utility called SLDRReg retrieves it. A dedicated utility called SLDRReg retrieves the file and sends it to the SLD over the network. SLDRReg is called by the MDM Server component. It must be installed on the machine on which the MDM Server component that registers to SLD is located.

MDM Server SLD registration can be switched off in the server configuration file for non-NetWeaver installations.

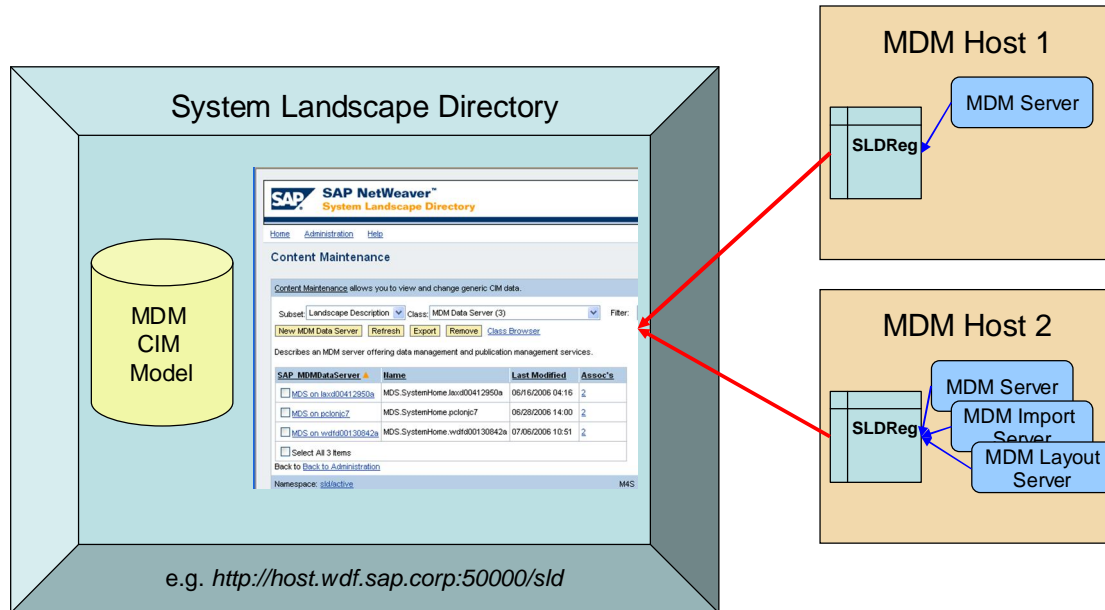
SLDRReg is not a monitor. This means it only runs when a component is started and thereafter from time to time. During uptime it runs only twice a day.

SLD Registration for MDM Components

In the current release MDM 7.1 SLD registration is provided on all MDM relevant operating system for the following four MDM Server components:

- MDM Server
- MDM Import Server
- MDM Syndication Server
- MDM Layout Server

SLD Registration for MDM



2 MDM SLD Registration Prerequisites

For registration, keep the following prerequisites in mind:

- A central SLD system has been installed on SAP Web AS Java NetWeaver 7.0 or higher.
- SLD registration for MDM 7.1 is based on CIM version 1.5.32 or higher.
- The CR part of SLD has been imported. CR stands for Component Repository and comprises all objects provided by SAP, including MDM software components defined as part of PPMS. CR is delivered by SAP and can be downloaded from SAP Service Marketplace.
- All required MDM server components are installed.

3 Installation and Configuration of SLD Registration on MDM System

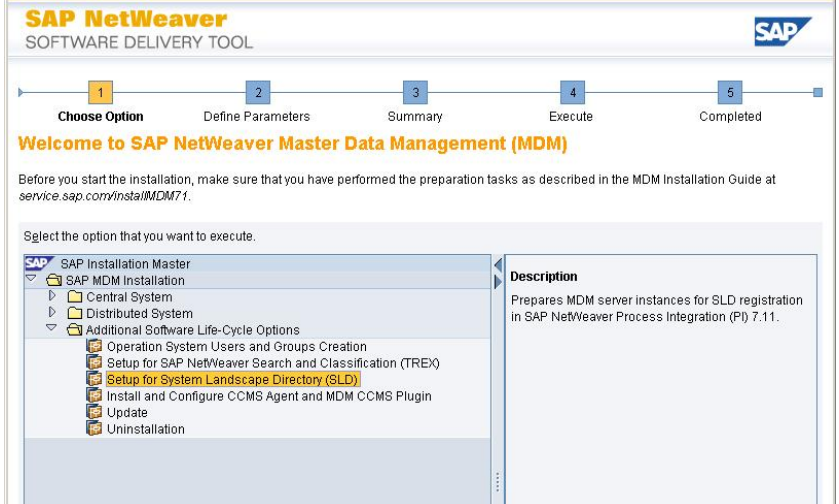
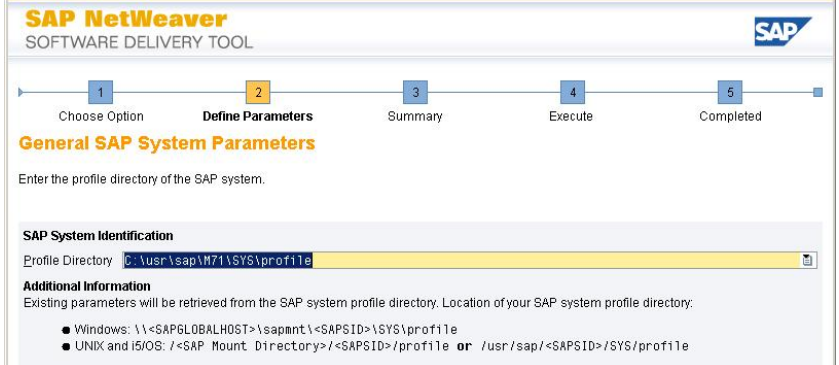
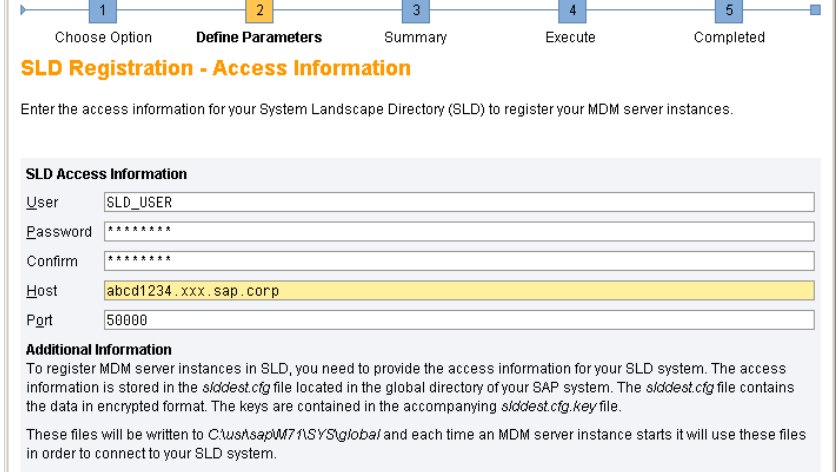
SLD registration can be switched on and off in the respective server configuration file. This must be done for each MDM Server application (configuration files *mds.ini*, *mdss.ini*, *mdls.ini* and *mdis.ini*). The following value needs to be set for registration:

SLD Registration=True

Different to MDM 5.5 the installation of the **sldreg** executable and the configuration of the MDM 7.1 SLD registration can now be done with the MDM 7.1 SAPinst installer (see *MDM 7.1 – Installation Guide <Platform>* on SAP Service Marketplace at service.sap.com).

During the SAPinst installation the **sldreg.exe** will be located on the correct path and the MDM servers can be selected where the SLD registration shall be performed. Post installation the specific *mdxx.ini* configuration files are set (value *SLD_Registration*) and the SLD connection parameters are stored in the files at */usr/sap/<MDM SID>/SYS/global*

Find a snapshot of a SAPinst controlled SLD registration here:

<p>1. Start the MDM 7.1 SAPinst installer (for details see the <i>MDM 7.1 - Installation Guide</i>). Select option <i>Additional Software Life-Cycle Options</i> and then start <i>Install the System Landscape Directory (SLD)</i> with Double-Click.</p>	
<p>2. Select the profile of your MDM installation you want to register in the SLD (e.g. M71). You have to enter the password of your MDM admin user (normally called <SID>adm, in this example m71adm)</p>	
<p>3. On the next screen you are requested to enter the SLD connection data: <i>SLD user (to register in SLD)</i> <i>SLD user password</i> <i>SLD hostname (full qualified)</i> <i>SLD port (normally 50000)</i></p>	

4. On the next screen select on which of the MDM servers you want to enable the SLD registration.

SLD registration is done the first time the respective MDM Server is restarted.

In the next step you are asked whether you directly want to restart the specific server instance. In a productive system it may happen that you have to wait for the next restart to make the SLD registration happen.

5. On the following screen *Parameter summary* you may check your settings before the real SLD installation and configuration process starts.

SAP NetWeaver
SOFTWARE DELIVERY TOOL

1 Choose Option 2 **Define Parameters** 3 Summary 4 Execute 5 Completed

SLD Registration - Activation

Select the MDM server instances for which you want to activate automatic registration in your SLD system.

Activate SLD Registration

☒ Activate SLD registration for all MDM instances

Activate SLD registration for single MDM instances

Current Status	Name	Type	Number	Host
<input checked="" type="checkbox"/> Enabled	MDS00	MDS	00	WDFD00183718A
<input checked="" type="checkbox"/> Enabled	MDIS01	MDIS	01	WDFD00183718A
<input checked="" type="checkbox"/> Enabled	MDSS02	MDSS	02	WDFD00183718A

SAP NetWeaver
SOFTWARE DELIVERY TOOL

1 Choose Option 2 **Define Parameters** 3 Summary 4 Execute 5 Completed

SLD Registration - Restart

Select the MDM server instances that you want to restart in order to register them in SLD immediately.

Restart MDM Server Instances

☒ Restart all instances

Restart single instances

Current Status	Name	Type	Number	Host
<input type="checkbox"/> Stopped	MDS00	MDS	00	WDFD00183718A
<input type="checkbox"/> Stopped	MDIS01	MDIS	01	WDFD00183718A
<input type="checkbox"/> Stopped	MDSS02	MDSS	02	WDFD00183718A

6. The installation is finished.

SAP NetWeaver
SOFTWARE DELIVERY TOOL

1 Choose Option 2 Define Parameters 3 Summary 4 Execute 5 **Completed**

Task Progress

The task has been completed successfully.

All phases completed

- ✓ MDM_Configure_SLD
- ✓ Generate SLD Configuration Files
- ✓ Configure MDM Instances
- ✓ Restart MDM Instances

Execution of Service SAP MDM Installation > Additional Software Life-Cycle Options > Setup for System Landscape Directory (SLD) has been completed successfully. Choose OK to close the installer.

Execution of SAP MDM Installation > Additional Software Life-Cycle Options > Setup for System Landscape Directory (SLD) has been completed successfully.

OK

7. Switch on/off the SLD registration on specific MDM servers:

To change the status of your registration afterwards you need to enter the specific configuration file
`/usr/sap/<SID>/MDSxx/config/m`

<i>ds.ini</i> /usr/sap/<SID>/MDISxx/config/m <i>dis.ini</i> /usr/sap/<SID>/MDLSxx/config/ <i>mdls.ini</i> /usr/sap/<SID>/MDSSxx/config/ <i>mdss.ini</i> and the change the value of SLD_Registration=TRUE to FALSE or vice versa	
--	--

The configuration is now complete. The next chapter describes how to check if the SLD registration is running successfully.

4 Checking the SLD Registration

You have now configured the registration of one of the MDM-specific servers. You can now check if the registration was successful. First check if the SLD registration-specific files are provided on the MDM host and then enter the SLD to see what the SLD knows about the new MDM Servers.

<p>1. First of all to get the server registered in the SLD it needs to be started at least once with the SLD_Registration flag set in the configuration .ini file. Check if the following two new files</p> <ul style="list-style-type: none">- <i>sld.log</i>- <i>sld.xml</i> <p>were created in the following directory:</p> <ul style="list-style-type: none"><i>/usr/sap/<SID>/MDSxx/work</i><i>/usr/sap/<SID>/MDISxx/work</i><i>/usr/sap/<SID>/MDLSxx/work</i><i>/usr/sap/<SID>/MDSSxx/work</i> <p>Check the log for the results. The xml file contains the data sent to the SLD via SLDREG.</p>	
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2. Start the SLD (log on) in a browser, for example:
[Error! Hyperlink reference not valid. qualified hostname>:50000/sld](#)

Willkommen



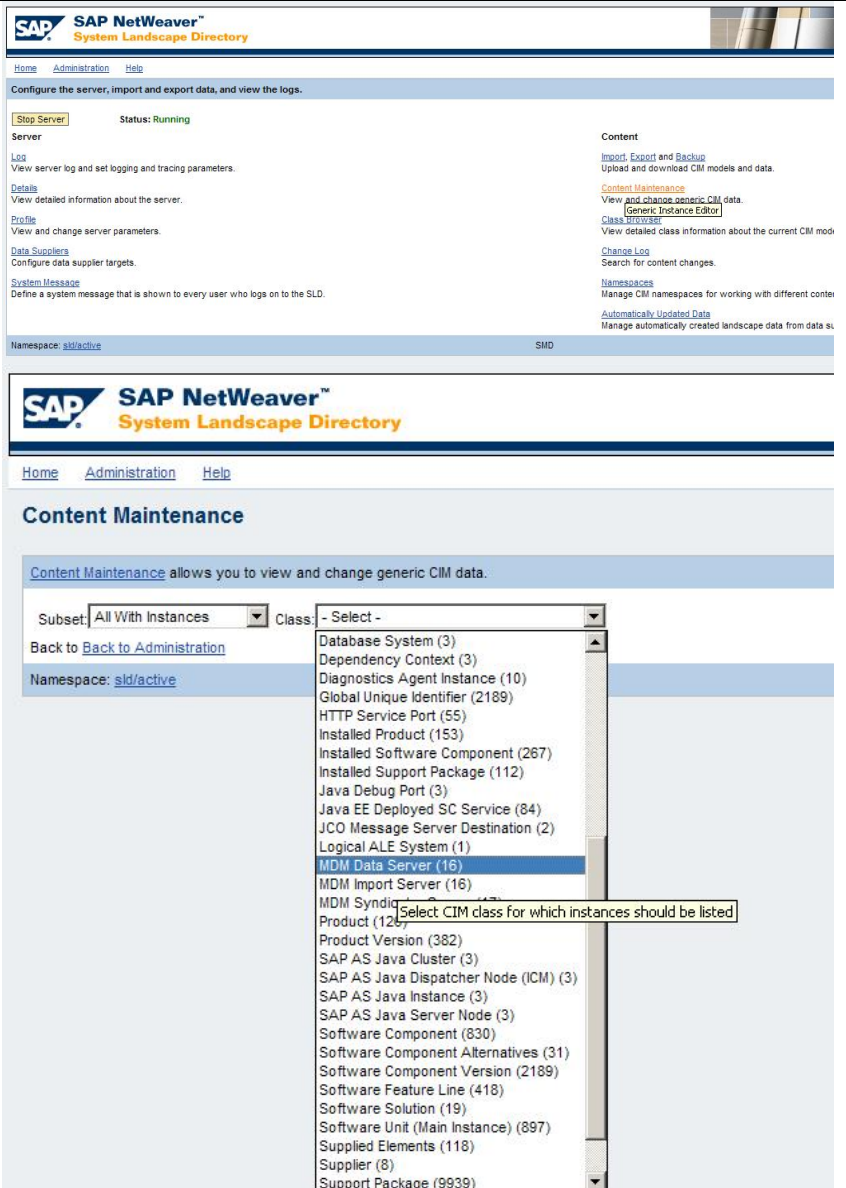
The login screen for SAP NetWeaver System Landscape Directory. It features a login form with fields for 'Benutzerkennung' (username) and 'Kennwort' (password). The username field contains 'SLD_tester' and the password field contains masked characters. Below the fields is an 'Anmelden' (Log On) button. To the right of the login form is a large image of a modern building facade. Below the image is the 'SAP NetWeaver' logo. At the bottom left, there is a copyright notice: '© 2002-2004 SAP AG. Alle Rechte vorbehalten.' and the SAP logo.

Benutzerkennung * SLD_tester
Kennwort *
Anmelden

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3. Go to **Administration** and select **Content Maintenance**.

Select *All with Instances* and then for example Class *MDM Import Server*,



The screenshot shows the 'Administration' section of the SAP NetWeaver System Landscape Directory. The 'Content Maintenance' page is active, displaying a list of classes for selection. The 'Subset' is set to 'All With Instances' and the 'Class' is set to 'MDM Import Server (16)'. A tooltip is visible over the 'MDM Import Server (16)' entry, stating 'Select CIM class for which instances should be listed'. The list of classes includes: Database System (3), Dependency Context (3), Diagnostics Agent Instance (10), Global Unique Identifier (2189), HTTP Service Port (55), Installed Product (153), Installed Software Component (267), Installed Support Package (112), Java Debug Port (3), Java EE Deployed SC Service (84), JCO Message Server Destination (2), Logical ALE System (1), MDM Data Server (16), MDM Import Server (16), MDM Syndicator (16), Product (126), Product Version (382), SAP AS Java Cluster (3), SAP AS Java Dispatcher Node (ICM) (3), SAP AS Java Instance (3), SAP AS Java Server Node (3), Software Component (830), Software Component Alternatives (31), Software Component Version (2189), Software Feature Line (418), Software Solution (19), Software Unit (Main Instance) (897), Supplied Elements (118), Supplier (8), and Support Package (9939).

SAP NetWeaver™
System Landscape Directory

Home Administration Help

Configure the server, import and export data, and view the logs.

Stop Server Status: Running

Server

Log View server log and set logging and tracing parameters.

Details View detailed information about the server.

Profile View and change server parameters.

Data Suppliers Configure data supplier targets.

System Message Define a system message that is shown to every user who logs on to the SLD.

Content

Import, Export and Backup Upload and download CIM models and data.

Content Maintenance View and change generic CIM data. (Generic Instance Editor)

Class Browser View detailed class information about the current CIM model.

Change Log Search for content changes.

Namespaces Manage CIM namespaces for working with different content.

Automatically Updated Data Manage automatically created landscape data from data sources.

Namespace: sld/active SID

SAP NetWeaver™
System Landscape Directory

Home Administration Help

Content Maintenance

Content Maintenance allows you to view and change generic CIM data.

Subset: All With Instances Class: - Select -

Back to Back to Administration

Namespace: sld/active

Database System (3)
Dependency Context (3)
Diagnostics Agent Instance (10)
Global Unique Identifier (2189)
HTTP Service Port (55)
Installed Product (153)
Installed Software Component (267)
Installed Support Package (112)
Java Debug Port (3)
Java EE Deployed SC Service (84)
JCO Message Server Destination (2)
Logical ALE System (1)
MDM Data Server (16)
MDM Import Server (16)
MDM Syndicator (16)
Product (126)
Product Version (382)
SAP AS Java Cluster (3)
SAP AS Java Dispatcher Node (ICM) (3)
SAP AS Java Instance (3)
SAP AS Java Server Node (3)
Software Component (830)
Software Component Alternatives (31)
Software Component Version (2189)
Software Feature Line (418)
Software Solution (19)
Software Unit (Main Instance) (897)
Supplied Elements (118)
Supplier (8)
Support Package (9939)

Select CIM class for which instances should be listed

4. Find the list of all MDM servers of the selected type that are registered to this SLD.

5. If your host is displayed, SLD registration is complete. Clicking on the host shows the details like installed version.

SAP NetWeaver™
System Landscape Directory

Home Administration Help

Content Maintenance

Content Maintenance allows you to view and change generic CIM data.

Subset: All With Instances Class: MDM Data Server (16) Filter:

[New MDM Data Server](#) [Refresh](#) [Export](#) [Remove](#) [Class Browser](#)

Describes an MDM server offering data management and publication management services.

SAP_MDMDataServer	Name	Last Modified	Assoc's
<input type="checkbox"/> MDS on bsw65219:57 am 2/26/2009	MDS.SystemHome.bsw65219:57 am 2/26/2009	04/14/2009 20:10	S
<input type="checkbox"/> MDS on ilbm04	MDS.SystemHome.ilbm04	03/03/2009 16:11	S
<input type="checkbox"/> MDS on ilsun500	MDS.SystemHome.ilsun500	02/18/2009 12:50	S
<input type="checkbox"/> MDS on ilsun501	MDS.SystemHome.ilsun501	02/18/2009 16:29	S
<input type="checkbox"/> MDS on itlvh325a	MDS.SystemHome.itlvh325a	02/23/2009 11:40	S
<input type="checkbox"/> MDS on itlvh329	MDS.SystemHome.itlvh329	03/02/2009 10:26	S
<input type="checkbox"/> MDS on itlvh36	MDS.SystemHome.itlvh36	03/29/2009 10:24	S
<input type="checkbox"/> MDS on itlvh38	MDS.SystemHome.itlvh38	02/23/2009 10:55	S
<input type="checkbox"/> MDS on itlvh69	MDS.SystemHome.itlvh69	03/08/2009 17:53	S
<input type="checkbox"/> MDS on itlvh70	MDS.SystemHome.itlvh70	02/22/2009 10:19	S
<input type="checkbox"/> MDS on itlvh71	MDS.SystemHome.itlvh71	02/23/2009 17:15	S
<input type="checkbox"/> MDS on opensuse-markus	MDS.SystemHome.opensuse-markus	02/02/2009 16:45	S
<input type="checkbox"/> MDS on pvd6790	MDS.SystemHome.pvd6790	04/01/2009 13:12	S
<input type="checkbox"/> MDS on usjcia6k	MDS.SystemHome.usjcia6k	04/14/2009 15:29	S
<input type="checkbox"/> MDS on vslex002	MDS.SystemHome.vslex002	02/18/2009 18:34	S
<input type="checkbox"/> MDS on wdfd00183718a	MDS.SystemHome.wdfd00183718a	04/02/2009 17:15	S
<input type="checkbox"/> Select All 16 Items			

Back to [Back to Administration](#)

Namespace: [sls/active](#) SMD

SAP NetWeaver™
System Landscape Directory

Home Administration Help

Content Maintenance

Content Maintenance allows you to view and change generic CIM data.

MDM Data Server: MDS on wdfd00130842a

[Save](#) [Copy](#) [Move](#) [Remove](#) [View XML](#) [2 Associated Instances](#)

CreationClassName: SAP_MDMDataServer

Name: MDS.SystemHome.wdfd00130842a

Caption:

BuildDate: Date Time

BuildNumber:

Description: Master Data Server Version 5.5 SP4 (5.5.32.50) running on wdfd00130842a

ElementName:

InstallDate: Date Time

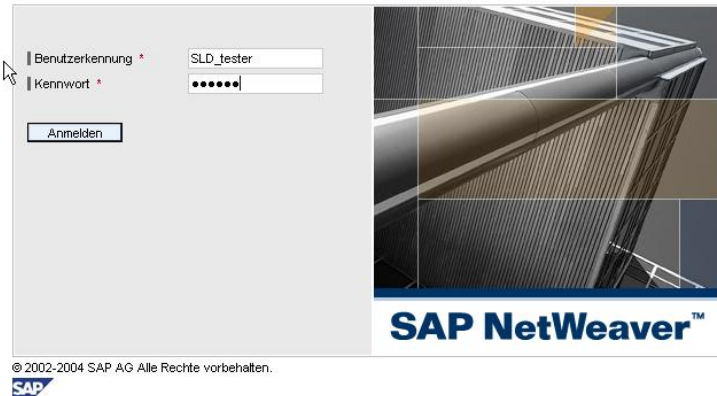
5 SLD Deregistration

Sometimes you need to deregister registered MDM components from the system landscape directory, e.g. if the MDM host is replaced with another host or if an MDM client is no longer valid.

Using the SLDREG.exe registration, there is no automatic deregistration feature in the MDM host, so the deregistration has to be done manually in the SLD.

1. Start the SLD (log on) in a browser, for example:
<http://<hostname>:50000/sld ad log on>

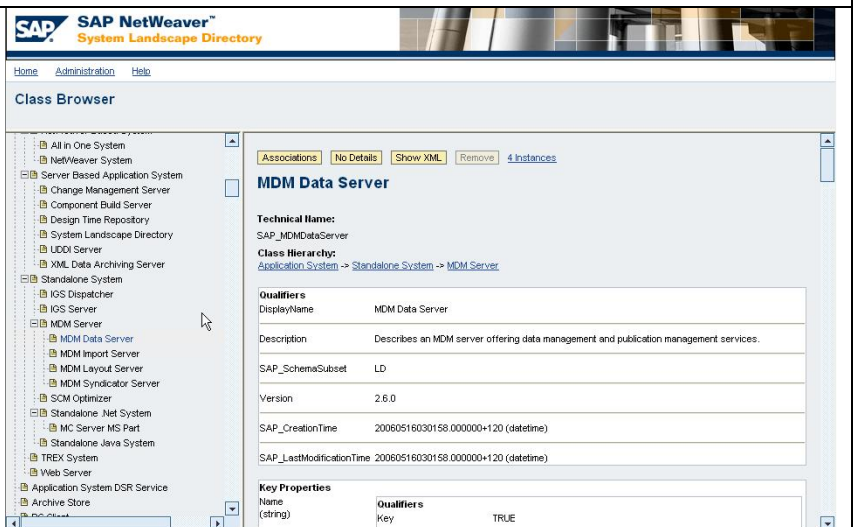
Willkommen



The login screen for SAP NetWeaver SLD. It features a login form with fields for 'Benutzerkennung' (username) and 'Kennwort' (password). The username field contains 'SLD_tester' and the password field is masked with dots. Below the fields is an 'Anmelden' (Log On) button. To the right of the login form is a large image of a modern building. At the bottom right, the 'SAP NetWeaver' logo is displayed. At the bottom left, there is a copyright notice: '© 2002-2004 SAP AG Alle Rechte vorbehalten.' and the SAP logo.

2. Go to **Administration** and select **Class Browser**.

In the structure tree on the left, select tab strip **LD** and search for MDM.



The screenshot shows the SAP NetWeaver SLD 'Class Browser' interface. The top navigation bar includes 'Home', 'Administration', and 'Help'. The 'Class Browser' title is visible. On the left, a structure tree lists various system components, including 'All in One System', 'NetWeaver System', 'Server Based Application System', 'Change Management Server', 'Component Build Server', 'Design Time Repository', 'System Landscape Directory', 'UDDI Server', 'XML Data Archiving Server', 'Standalone System', 'IGS Dispatcher', 'IGS Server', 'MDM Server', 'MDM Data Server', 'MDM Import Server', 'MDM Layout Server', 'MDM Syndicator Server', 'SCM Optimizer', 'Standalone .Net System', 'MC Server MS Part', 'Standalone Java System', 'TREX System', 'Web Server', 'Application System DSR Service', and 'Archive Store'. The 'MDM Data Server' is selected. On the right, the details for 'MDM Data Server' are displayed. It includes tabs for 'Associations', 'No Details', 'Show XML', and 'Remove'. The 'Technical Name' is 'SAP_MDMDataServer'. The 'Class Hierarchy' is 'Application System -> Standalone System -> MDM Server'. The 'Qualifiers' section shows 'DisplayName' as 'MDM Data Server', 'Description' as 'Describes an MDM server offering data management and publication management services.', 'SAP_SchemaSubset' as 'LD', 'Version' as '2.6.0', 'SAP_CreationTime' as '20060516030158.000000+120 (datetime)', and 'SAP_LastModificationTime' as '20060516030158.000000+120 (datetime)'. The 'Key Properties' section shows 'Name (string)' as 'Qualifiers' and 'Key' as 'TRUE'.

- For all available MDM Server components:
MDM Data Server
MDM Import Server
MDM Syndication Server
MDM Layout Server

open the instances, select the instance you want to deregister and choose *Remove* to delete this MDM Server component.

- The operation cannot be undone. Confirm the operation in the pop-up.

The screenshot shows the SAP NetWeaver System Landscape Directory interface. The 'Content Maintenance' section is active, displaying a list of MDM Data Server instances. The instance 'MDS on PCLONJC7' is selected, and the 'Remove' button is highlighted. A Microsoft Internet Explorer dialog box is overlaid on the screen, warning that the operation cannot be undone.

SAP NetWeaver™ System Landscape Directory

Home Administration Help

Content Maintenance

Content Maintenance allows you to view and change generic CIM data.

Subset: Landscape Description Class: MDM Data Server (4) Filter:

New MDM Data Server Refresh Export **Remove** Class Browser

Describes an MDM server offering data management and publication management services.

SAP MDMDataServer ▲	Name	Last Modified	Assoc's
<input type="checkbox"/> MDS on laxd00412950a	MDS.SystemHome.laxd00412950a	06/16/2006 04:16	2
<input type="checkbox"/> MDS on LONN60131529A	MDS.SystemHome.LONN60131529A	07/27/2006 11:59	2
<input checked="" type="checkbox"/> MDS on PCLONJC7	MDS.SystemHome.PCLONJC7	07/12/2006 10:43	2
<input type="checkbox"/> MDS on WDFD00130842A	MDS.SystemHome.WDFD00130842A	07/25/2006 16:29	2

☐ Select All 4 Items

Back to [Content Maintenance Instance List](#)

Namespace: [sld/active](#) M4S

Microsoft Internet Explorer

?

This will remove the selected instances from the SLD Server.
This operation cannot be undone.

OK Cancel

SAP NetWeaver™ System Landscape Directory

Home Administration Help

Content Maintenance

Content Maintenance allows you to view and change generic CIM data.

Subset: Landscape Description Class: MDM Data Server (3) Filter:

New MDM Data Server Refresh Export **Remove** Class Browser

Describes an MDM server offering data management and publication management services.

SAP MDMDataServer ▲	Name	Last Modified	Assoc's
<input type="checkbox"/> MDS on laxd00412950a	MDS.SystemHome.laxd00412950a	06/16/2006 04:16	2
<input type="checkbox"/> MDS on LONN60131529A	MDS.SystemHome.LONN60131529A	07/27/2006 11:59	2
<input type="checkbox"/> MDS on WDFD00130842A	MDS.SystemHome.WDFD00130842A	07/25/2006 16:29	2

☐ Select All 3 Items

Back to [Content Maintenance Instance List](#)

Namespace: [sld/active](#) M4S

6 Additional Information

The SLD application in SAP NetWeaver provides the SLD log under *Administration* and *Class Browser*. To start the SLD application, go to page *sld* of your SAP NetWeaver Web AS Java.

The MDM part of SAP CIM is defined in the model description under <http://ency.wdf.sap.corp:1080/CIM/Model/SAP>.

The MDM definitions in PPMS are defined in CSN and can be viewed with transaction BOPP.

For further documentation about SLD, see pages */sld* and */landscape* on SAP Service Marketplace.