Cisco Switch SMI-S provider for HP Systems Insight Manager

About this document

HP Systems Insight Manager (HP SIM) uses CIM/WBEM servers and providers that conform to the Storage Management Initiative Specification (SMI-S). Before HP SIM can manage and report on a storage system, the appropriate SMI-S provider must be installed and configured.

About the SMI-S provider

- The SMI-S provider for Cisco switches is also called the *cimserver*.

Models supported

- Cisco MDS 9020 Multilayer Fabric Switch
- Cisco MDS 9120 Multilayer Fabric Switch A7426A
- Cisco MDS 9140 Multilayer Fabric Switch A7427A
- Cisco MDS 9216 Multilayer Fabric Switch A7473A
- Cisco MDS 9216A Multilayer Fabric Switch A7558A
- Cisco MDS 9216i Multilayer Fabric Switch A7557A
- Cisco MDS 9506 Multilayer Director A7471A
- Cisco MDS 9509 Multilayer Director A7462A
- Cisco MDS 9513 Multilayer Director

Requirements

- HP SIM 5.0 or later must be installed on the central management server (CMS).

- Cisco SANOS 2.1(1b) or later must be installed on the switch.

Installing the SMI-S provider

The Cisco SMI-S provider is delivered and installed with the switch firmware. Complete the following procedure if your Cisco switch does not have the required level of firmware installed.

- Open a web browser and go to http://www.hp.com .

- Click the **Software & Driver Downloads** link.

- In the product search box, enter the model number for your switch (for example, Cisco MDS 9216).

- Click the link for the applicable switch.

- Click the link for the applicable switch operating system.

- Click the Obtain software link to download the latest firmware.

- Install the firmware

  For instructions on how to upgrade the firmware via the command line, navigate to http://www.cisco.com/techsupport , enter **Cisco MDS 9000 Family Software Upgrade and Downgrade Guide** in the search box, and click **go**.

The following documents describe the procedure for upgrading and downgrading the Cisco SAN-OS software.

- *Cisco MDS 9000 Family Software Upgrade and Downgrade Guide*

- *Cisco MDS 9000 Family Command Reference*

- *Cisco MDS 9000 Family Fabric Manager Configuration Guide*

Configuring the Cisco SMI-S provider

For information on configuring the Cisco SMI-S provider, see the Cisco document *Configuring and Using the CIM Server*. This document is part of the *Cisco MDS 9000 Family SMI-S Programming Reference* and is available at http://www.cisco.com/en/US/docs/storage/san_switches/mds9000/sw/san-os/smi-s/developer/guide/proced.html#wp1039030 .

Limitations

- HP SIM may experience a slight delay in discovering the Cisco switches while the SMI-S provider gathers information from the switches for the first time.

Helpful tips

- To view the version of the Cisco MDS SAN-OS running a switch, Telnet to the switch and enter the `show version` command.

- To verify that the SMI-S provider is running and configured for SSL, Telnet to the switch and enter the `show cimserver` command. For example:

```
HP_OV_SAM1# show cimserver
cimserver is enabled
cimserver Http is enabled
cimserver Https is enabled
cimserver certificate file name is servcert.pem
```

Links

- HP SIM overview:
  http://h18013.www1.hp.com/products/servers/management/hpsim/index.html

- HP SIM SMI-S provider information:
  http://h18013.www1.hp.com/products/servers/management/hpsim/smi-s-providers.html