

Linux HBA providers 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 host, the appropriate SMI-S provider must be installed and configured.

About the SMI-S provider

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

Models supported

The Linux HBA SMI-S provider enables HP SIM support for the following Fibre Channel Host Bus Adapter (HBA) models:

HP HBAs (QLogic OEM)

- HP FCA2214
- HP FCA2214DC

The HP Fibre Channel HBA models listed above are supported on the following Linux operating systems:

- Red Hat Enterprise Linux 3 (AMD64/EM64T)
- Red Hat Enterprise Linux 3 (x86)
- Red Hat Enterprise Linux 4 (AMD64/EM64T)
- Red Hat Enterprise Linux 4 (x86)
- SUSE Linux Enterprise Server 8 (AMD64)
- SUSE Linux Enterprise Server 9 (AMD64/EM64T)
- SUSE Linux Enterprise Server 9 (x86)

HP HBAs (Emulex OEM)

- HP FC2242SR 4Gb PCI-e DC HBA
- HP FC2142SR 4Gb PCI-e HBA
- HP FC2143 4Gb PCI-X 2.0 HBA
- HP FC2243 4Gb PCI-X 2.0 DC HBA
- A7298A
- 394757-B21
- 394588-B21

The HP Fibre Channel HBA models listed above are supported on the following Linux operating systems:

- Red Hat Enterprise Linux 3.0 on x86 and x86-64
- Red Hat Enterprise Linux 4.0 on x86 and x86-64
- SUSE Linux Enterprise Server 8.0 on x86 and x86-64
- SUSE Linux Enterprise Server 9.0 on x86 and x86-64

Requirements

The following requirements must be met in order for HP SIM to support the listed Linux HBAs:

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

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- HP Emulex HBAs only: Emulex driver version 8.0.16.29 (or later) or 8.1.6.6 (or later) and the corresponding applications kit are required.

Installing the SMI-S provider

HP HBAs (QLogic OEM)

1. Make sure OpenSSL is installed on your system. Enter `openssl version` to show the version. If you get an error, check with your OS provider. OpenSSL is available with most common Linux operating system.
2. To obtain the provider, open a web browser and go to <http://h18006.www1.hp.com/storage/saninfrastructure/hba.html>
3. Click the link for the applicable HBA model.
4. Click the **Software & Drivers** link.
5. Click the applicable Linux operating system link.
6. Scroll down to the Software section, and click the **Obtain Software** link for *SMI-S CIM Providers for HP QLogic HBAs*.
7. Run `rpm` on the rpm file that you downloaded for your version of Linux.
8. Change to the directory where the provider is installed and run the `pegsetup` program by entering:
`./pegsetup`

NOTE:

Be sure to enter a space between the two periods in `./pegsetup`

9. Start the cimserver by entering `cimserver`.

HP HBAs (Emulex OEM)

1. To obtain the provider, open a web browser and go to <http://h18006.www1.hp.com/storage/saninfrastructure/hba.html>
2. Click the link for the applicable HBA model.
3. Click the **Software & Drivers** link.
4. Click the applicable Linux operating system link.
5. Scroll to the Software section, and click the **Obtain Software** link for the SMI-S provider.

The Linux release kit is provided in the file format: `elxsmiprvider-<OS>-<processor>-<version>.tar.gz`, where `<OS>` is the operating system variant, `<processor>` is the processor type, and `<version>` is the provider version. For example, `elxsmiprvider-rhe14-i386-1.1.6-2.tar.gz` is version 1.1.6-6 or the provider for Red Hat Enterprise Linux 4 (x86).

6. Copy the release kit to the `/tmp` directory on the computer where it will be installed.

7. Enter `tar -zxvf elxsmiprvider-<OS>-<processor>-<version>.tar.gz` to expand the release kit.

8. Enter `cd elxpegasus . ./cimsrvinstall_start.sh`

You can use the `-https_port`, `-http_port`, and `-new_password` options to change the https port, http port, and password for the root account. The `-no_prompts` option specifies a non-interactive installation. If no options are specified, you will be prompted to change the port numbers and password.

The `elxpegasus` directory is copied to `/opt/Emulex/elxpegasus`.

9. In HP SIM, navigate to **Options > Protocol Settings > Global Protocol Settings**, and enter the SMI-S provider username (root) and password (pwd580) in the **Default WBEM settings** section. There is a limit of five username/password combinations.

Limitations

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

Links

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