

General Notes:

The following platform/OS combinations are supported:

- x86 platform and 32 bit OS
- x64 platform and 32 bit OS
- x64 platform and 64 bit OS
- IA64 platform and (IA)64 bit OS <HP only>

CIM Extension Minimum Requirements:

- 2GB physical memory
- 512MB disk space

OS	Release and Kernel	Filesystem	Comments
SuSe OS	SuSe LINUX Enterprise Server Release 10, SP1, SP2, SP3, SP4 (x86, x64, IA64)	ext3, reiserfs	Cluster awareness/visualization not supported. CIM/CXWS agents can coexist on clustered hosts. IPv6 Support: Suse host configured with IPv6 address is supported.
SuSe OS	SuSe LINUX Enterprise Server Release 11 , SP1, SP2 (x86, x64, IA64)		

HBA

HBAs were tested with recent firmware and drivers, as of this writing. Contact your management server software representative for additional firmware and driver details.

HBA drivers used must be SNIA HBA API compliant.

We do not support multiple OEMs of HBAs in the same server.

Dual-ported HBAs differ in how they appear to the management server software and is dependent on how the vendor implements their API. Some dual-ported HBAs appear as two separate adapters.

Depending on the HBA Firmware and the api versions that are used to retrieve the information, SE may report the HBA type differently from what it actually is on the HBA.

HBA	Driver	Platform	Comments
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Emulex	<p>8.0.16.32</p> <p>8.1.6.6</p> <p>8.2.0.22, 8.2.0.29, 8.2.0.39</p> <p>Inbox Drivers** 8.1.10.3 8.2.0.22 8.2.0.48.2p</p> <p>8.2.8.14</p> <p>8.3.5.48.2p</p>	<p>SuSE 9.0 SP3, SP4 (x86, x64, IA64)</p> <p>SuSE 10 (x86, x64, IA64)</p> <p>SuSE 10.0 SP1, SP2 (x86, x64, IA64)</p> <p>SuSE 10.0 SP1 SuSE 10.0 SP2 SuSE 10.0 SP3</p> <p>SuSE 11 (x86,x64,IA64) SuSE 11 SP1 (x86,x64,IA64)</p> <p>SuSE 11 SP2 (x86,x64,IA64)</p>	<p>Emulex HBA Families</p> <p>2g PCI - LP9002, LP9002DC, LP9002L, LP952L 2g PCI-X (1.0) - LP9802, LP9802DC, LP982, LP9402DC, LP1050, LP1050Ex, LP1050DC, LP10000, LP10000DC, LP10000ExDC, LP9000, LP101, LP1005DC-CM2 4g PCI-X (2.0) - LP1150, LP11002, LP11000 2/4g PCI Express - LPe11002, LPe11004, LPe11000, LPe1150 8g PCIe - LPe12000, LPe12002, LPe12004, LPe1250</p> <p>OneCommandManager is required with all Drivers to provide the SNIA API.</p> <p>For x64 Hosts, the 32bit libnl rpm package is required for HBA\SAN discovery. Refer to the OS media to install this RPM.</p> <p>*NOTE: Refer to the Vendor's Release Notes to determine which HBAs and Drivers are supported by which OS versions.</p>
QLogic	<p>8.02.08, 8.02.14.01, 8.02.23</p> <p>Inbox Drivers** 8.01.07-k3 8.02.00-k6 8.03.00.10.10.3-k4</p> <p>8.03.00.14</p> <p>8.03.07.07-k</p>	<p>SuSE 9.0 SP3, SP4 SuSE 10 SuSE 10.0 SP1, SP2 (x86, x64, IA64)</p> <p>SuSE 10 SP1 SuSE 10 SP2 SuSE 10 SP3 SuSE 10.0 SP4</p> <p>SuSE 11 (x86, x64, IA64)</p> <p>SuSE 11 SP2 (x86, x64, IA64)</p>	<p>QLogic HBA Families</p> <p>2g PCI-X (1.0) QLA2300,QLA2300F,QLA2302F,QLA2310,QLA2310F,QLA2310FL,QLA2340,QLA2340L,QLA2342,QLA2342L,QLA2350,QLA2352, QLA2344 4g PCI-X (2.0) QLA2460,QLA2462 2/4g PCI Express - QLE2460, QLE2462 8g PCIe - QLE2560, QLE2562, QLE2564</p> <p>*NOTE: Refer to the Vendor's Release Notes to determine which HBAs and Drivers are supported by which OS versions.</p> <p>** The inbox drivers are only supported with the SNIA API that is downloadable from Qlogic's website. Follow the readme file from Qlogic on how to extract and install the API.</p>

HP - (Emulex Branded)	8.0.16.32 8.1.6.8 8.1.6.8, 8.2.0.22_p1, 8.2.0.22_p4 Inbox Drivers** 8.2.0.48.2p 8.2.8.14	SuSE 9.0 SP3 (x86, x64, IA64) SuSE 10 (x86, x64, IA64) SuSE 10.0 SP1, SP2 (x86, x64, IA64) SuSE 10.0 SP3 SuSE 11(x86,x64,IA64)	4g PCI-X (2.0) - FC2143, FC2243 2/4g PCI Express - FC2242SR, FC2142SR 8g PCI Express - 81E (AJ762A), 82E (AJ763A) P-Class Blades - Emulex-based Fibre Channel Mezzanine HBA for HP p-Class BladeSystem C-Class Blades - Emulex LPe1105-HP 4gb FC HBA for HP c-Class BladeSystem For x64 Hosts, the 32bit libnl rpm package is required for HBA\SAN discovery. Refer to the OS media to install this RPM. *NOTE: Refer to the Vendor's Release Notes to determine which HBAs and Drivers are supported by which OS versions. ** The inbox drivers are only supported with the SNIA API that can be installed with the HP Fibre Channel Enablement Kit. This kit can be found at hp.com.
HP - (Qlogic Branded)	8.01.06.01, 8.01.07.25, 8.02.11 Inbox Drivers** 8.03.00.10.10.3-k4 8.03.01.06.11.1-k8	SuSE 9.0 SP3, SP4 SuSE 10.0 SuSE 10.0 SP1, SP2 (x86, x64, IA64) SuSE 10.0 SP3 SuSE 11 (x86, x64, IA64) SuSE 11 SP1 (x86, x64, IA64)	2g PCI-X (1.0) - FCA2214, FCA2214DC, A6826A 4g PCI-X (2.0) - FC1143, FC1243, AB379A 4g PCI Express - FC1142SR, FC1242SR 8g PCI Express - 81Q (AK344A), 82Q (AJ764A) P-Class Blades - QLogic-based Fibre Channel Mezzanine HBA for HP p-Class BladeSystem C-Class Blades - HP QLogic QMH2462 4Gb FC HBA for HP c-Class BladeSystem *NOTE: Refer to the Vendor's Release Notes to determine which HBAs and Drivers are supported by which OS versions. ** The inbox drivers are only supported with the SNIA API that can be installed with the HP Fibre Channel Enablement Kit. This kit can be found at hp.com.
Brocade 804/825 8Gb Fibre Channel HBA for c- Class BladeSystem	See Comments to right	SLES10 SP3 SLES11 SP1	These cards go into a blade enclosure
Multipathing, Volume Managers, File Systems	Version	Platform	Comments
HDLM	5.91, 5.92, 6.0, 6.1		HDS Arrays only Refer to HDLM's support matrix for version support on each OS When using HGLAM 5.6 and HDLM 6.0 on unix based clients, the load balancing at lun level option is not supported. The UI does not show the multipathing path status properly.
SDD	1.6.2.0.1.1 1.6.3.0-2	SuSE 9	SuSE 10 not supported

Linux Device Mapper	Native OS version	SUSE 10 SP1 SuSE 11 SuSE 11 SP2	
EMC PowerPath	5.0 5.1 5.1 SP2	SUSE 10 SP1, SP2	Note: See Vendor's support matrix for software's supported OS and platform versions.
SuSe Native Volume Manager	Native OS version	x86, x64, IA64	
Clusters	Version	Platform	Comments
MC Service Guard			MC Service Guard is Cluster Aware. Automatic discovery of cluster is not supported, Cluster Builder must be used.
HP StorageWorks Cluster Extension			HP StorageWorks Cluster Extension EVA Software only. Supported configurations are - MC Service Guard Linux Cluster
Oracle Clusterware	11.2.0.2	SUSE 10 SP3 or later (x64)	Automatic discovery of cluster is NOT supported. Cluster Builder needs to be used to build the hostcluster manually. Oracle RAC is supported on this cluster. Oracle Autoscan should be enabled or Oracle RAC configurations details should be entered in Application Setup page before running GAED on the cluster nodes for automatic discovery to complete. Refer to User Guides for more details.

General Notes for Host discovery WITHOUT CIM Extension:
The following platform/OS combinations are supported:
- x86 platform and 32 bit OS
- x64 platform and 32 bit OS
- x64 platform and 64 bit OS

- IA64 platform and (IA)64 bit OS not supported
- No cluster support . Both Hostcluster auto-discovery and Cluster builder will not be supported.
Pls refer the HP Storage Essentials User guide for pre-requisites for AGENTLESS discovery of Windows hosts.

1. Following information is not available for a non root user account:
- Information related to DMP devices is not displayed, as the command vxdisk, required for collecting the information needs root privileges.
- Serial number and manufacturer of the system is not displayed.
- Information related to disk drives and disk partitions is not displayed.

2. Vendor, Serial Number and hardware version information is not displayed for HBAs.
3. Performance data for Disk Read, Disk Total, Disk Utilization, Disk Write and Processor utilization metrics is not displayed in the management server.
4. Binding page is not updated when some paths to the LUNs are disabled.
5. Target mapping data on the Binding page does not match with CIME.

Note: All the above mentioned limitations can be overcome by installing CIM extension on the Linux host.

Only Password authentication method in SSH is supported.

IPv6 Support: SUSE 10 SP4 (x64) and SUSE 11 SP1 (x64) host configured with IPv6 address is supported

OS	Release and Kernel	Filesystem	Comments
SuSe OS	SuSe LINUX Enterprise Server Release 10 SP4 <input type="checkbox"/>	ext3, reiserfs	

SuSe OS	SuSe LINUX Enterprise Server Release 11 SP1		
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HBA

HBAs were tested with recent firmware and drivers, as of this writing. Contact your management server software representative for additional firmware and driver details.

We do not support multiple OEMs of HBAs in the same server.

Dual-ported HBAs differ in how they appear to the management server software. Dual-port HBAs appear as two separate adapters.

HBA	Driver	Platform	Comments
Emulex	Inbox Drivers 8.2.0.92.1p d 8.3.5.8.1p	SuSE 10.0 SP4 11.0 SP1	SUSE Emulex HBA Families 2g PCI - LP9002, LP9002DC, LP9002L, LP952L 2g PCI-X (1.0) - LP9802, LP9802DC, LP982, LP9402DC, LP1050, LP1050Ex, LP1050DC, LP10000, LP10000DC, LP10000ExDC, LP9000, LP101, LP1005DC-CM2 4g PCI-X (2.0) - LP1150, LP11002, LP11000 2/4g PCI Express - LPe11002, LPe11004, LPe11000, LPe1150 8g PCIe - LPe12000, LPe12002, LPe12004, LPe1250 *NOTE: Refer to the Vendor's Release Notes to determine which HBAs and Drivers are supported by which OS versions.
QLogic	Inbox Drivers 8.03.01.12.10.3-k4 8.03.01.06.11.1-k8	SuSE 10.0 SP4 11.0 SP1	SUSE QLogic HBA Families 2g PCI-X (1.0) QLA2300,QLA2300F,QLA2302F,QLA2310,QLA2310F,QLA2310FL, QLA2340,QLA2340L,QLA2342,QLA2342L,QLA2350,QLA2352, QLA2344 4g PCI-X (2.0) QLA2460,QLA2462 2/4g PCI Express - QLE2460, QLE2462 8g PCIe - QLE2560, QLE2562, QLE2564 *NOTE: Refer to the Vendor's Release Notes to determine which HBAs and Drivers are supported by which OS versions.
HP - (Emulex Branded)	Inbox Drivers 8.2.0.92.1p d 8.3.5.8.1p	SuSE 10.0 SP4 11.0 SP1	SUSE 4g PCI-X (2.0) - FC2143, FC2243 2/4g PCI Express - FC2242SR, FC2142SR 8g PCI Express - 81E (AJ762A), 82E (AJ763A) P-Class Blades - Emulex-based Fibre Channel Mezzanine HBA for HP p-Class BladeSystem C-Class Blades - Emulex LPe1105-HP 4gb FC HBA for HP c-Class BladeSystem *NOTE: Refer to the Vendor's Release Notes to determine which HBAs and Drivers are supported by which OS versions.

HP - (Qlogic Branded)	Inbox Drivers 8.03.01.12.10.3-k4 8.03.01.06.11.1-k8	SuSE 10.0 SP4 11.0 SP1	SUSE 2g PCI-X (1.0) - FCA2214, FCA2214DC, A6826A 4g PCI-X (2.0) - FC1143, FC1243, AB379A 4g PCI Express - FC1142SR, FC1242SR 8g PCI Express - 81Q (AK344A), 82Q (AJ764A) P-Class Blades - QLogic-based Fibre Channel Mezzanine HBA for HP p-Class BladeSystem C-Class Blades - HP QLogic QMH2462 4Gb FC HBA for HP c-Class BladeSystem *NOTE: Refer to the Vendor's Release Notes to determine which HBAs and Drivers are supported by which OS versions.
Brocade 804/825 8Gb Fibre Channel HBA for c-Class BladeSystem	See Comments to right		These cards go into a blade enclosure
Multipathing, Volume Managers, File Systems	Version	Platform	Comments
Linux Device Mapper	Native OS version	SUSE 10 SP4 SuSE 11 SP1	
SuSe Native Volume Manager	Native OS version	SUSE 10 SP4 SuSE 11 SP1	