Oracle	Release: 9.6.0 Doc Version: V34.3

General Notes:

The following platform/OS combinations are supported:
- SPARC platform and 32/64 bit OS
- Solaris on x86_64 Intel/AMD processors

CIM Extension Minimum Requirements:
  - 2GB physical memory
  - 512MB disk space

OS	Releases	Filesystem	Comments
Solaris 9 (SPARC)	SAN Kit 4.4.14, SAN Kit 4.4.15	Ufs, VxFS	Remote agent deploy to Solaris 9 and 10 qualified using SSH: SSH Version Sun_SSH_1.0.1 SSH-2.0-Sun_SSH_1.0 SSH-1.99-OpenSSH_3.9p1
Solaris 10 (SPARC)	Solaris 10 U4 08/07 Solaris 10 U5 05/08 Solaris 10 U6 10/08 Solaris 10 U7 05/09 Solaris 10 U8	Ufs, VxFS	IPv6 Support: Solaris SPARC host configured with IPv6 address is supported. To discover Solaris 9 hosts in SE 9.6, use/install 9.5.1 CIM extensions on the Solaris 9 host
Solaris 10 (X86_64)	Solaris 10 U4 08/07 Solaris 10 U5 05/05 Solaris 10 U6 10/08 Solaris 10 U7 05/09 Solaris 10 U8 Solaris 10 U9	Ufs, VxFS	Remote Agent deploy to Solaris 10 x86_64 qualified using Native SSH. IPv6 Support: Solaris x86_64 host configured with IPv6 address is supported.

Subsystems	Series	Models	Comment

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 - Details	Comment

Vendor	Driver Version	OS	HBA Families
Emulex	6.20j, 6.21g, 6.30g	Solaris 9, 10 (SPARC)	Emulex HBA Families 2g PCI - LP9002C, LP9002S, LP9002DC, LP9002L 2g PCI-X (1.0) - LP10000DC, LP10000, LP9802, LP9802DC, LP9402DC, LP1050, LP1050DC 4g PCI-X (2.0) - LP11002, LP11000 4g PCI Express - LPe11002, LPe11000 - Solaris 10 U3, U4 with 6.20j or higher 8g PCIe - LPe12000, LPe12002, LPe12004, LPe1250 (Solaris 10 x86_64 only) * Refer to the Emulex documentation about required patches and installation procedure.
Qlogic	5.03, 5.04	Solaris 9, 10 (SPARC)	Qlogic HBA Families 2g PCI-X (1.0) - QLA2340, QLA2342, QLA2344, QLA2310, QLA2300, QLA2300F, QLA2310F, QLA2342L 4g PCI-X (2.0) - QLA2460, QLA2462 8g PCIe - QLE2560, QLE2562, QLE2564 (Solaris 10 x86_64) * Refer to the Qlogic documentation about required patches and installation procedure
Brocade	1.1.0.6, 2.1.0.0, 2.3.0.2	Solaris 10 (SPARC, x86_64)	Brocade HBA Families 4g PCIe - 415, 425 8g PCIe - 815, 825 *NOTE: Refer to the Vendor's Release Notes to determine which HBAs and Drivers are supported by which OS versions.

SUN - (Qlogic)	See Comments	Solaris 9 (SPARC)
		Solaris 10 U4, U5, U6, U7, U8, U9 (SPARC)
		Solaris 10 U4, U5, U6, U7, U8, U9 (x86_64)
			Qlogic HBA Models:
			  - 2g - SG-XPCI1FC-QL2, SG-XPCI2FC-QF2-Z
			  - 4g - SG-XPCI1FC-QF4, SG-XPCI2FC-QF4
			SAN Kit 4.4.14 (SunFC Qlogic FCA v20071218-2.19) - Solaris 9
			SAN Kit 4.4.15 (SunFC Qlogic FCA v-200712182.19) - Solaris 9
			Solaris 10 Update 4 (08/07) (SunFC Qlogic FCA v20070604-2.21)
			Solaris 10 Update 5 (05/08) (SunFC Qlogic FCA v20071220-2.26)
			Solaris 10 Update 6 (10/08) (SunFC Qlogic FCA v20080617-2.29)
			Solaris 10 Update 7 (05/09) (SunFC Qlogic FCA v20090415-2.30)
			Solaris 10 Update 8 (10/09) (SunFC emlxs FCA v20090717-2.40s)
			
			  - 4g - SG-XPCIE1FC-QF4, SG-XPCIE2FC-QF4
			  - 8g - SG-XPCIE1FC-QF8-Z, SG-XPCIE2FC-QF8-Z
			Solaris 10 Update 4 (08/07) (SunFC Qlogic FCA v20070604-2.21)
			Solaris 10 Update 5 (05/08) (SunFC Qlogic FCA v20071220-2.26)
			Solaris 10 Update 6 (10/08) (SunFC Qlogic FCA v20080617-2.29)
			Solaris 10 Update 7 (05/09) (SunFC Qlogic FCA v20090415-2.30)
			Solaris 10 Update 8 (10/09) (SunFC emlxs FCA v20090717-2.40s)
			
			Refer to the Vendor's release notes for specfics on which HBAs\OS combo's are supported.
			The Sun HBAs must have Sun firmware and be supported by the San Foundation Suite.
			Dual-ported adapters appear as two separate adapters.

| SUN - (Emulex) | See Comments | Solaris 9 (SPARC)
Solaris 10 U4, U5, U6, U7, U8, U9 (SPARC)
Solaris 10 U4, U5, U6, U7, U8, U9 (x86_64) | Emulex HBA Models:
  - 2g - SG-XPCI1FC-EM2, SG-XPCI2FC-EM2
  - 4g - SG-XPCI1FC-EM4-Z, SG-XPCI2FC-EM4-Z
SAN Kit 4.4.14 (SunFC emlxs FCA v20071207-1.20g) - Solaris 9
SAN Kit 4.4.15 (SunFC emlxs FCA v20080626-1.20gx8) - Solaris 9
Solaris 10 Update 4 (08/07) (SunFC emlxs FCA v20070604-2.20k)
Solaris 10 Update 4 (08/07) (SunFC emlxs FCA v20071022-2.21h)
Solaris 10 Update 5 (05/08) (SunFC emlxs FCA v20071221-2.30g)
Solaris 10 Update 6 (10/08) (SunFC emlxs FCA v20080616-2.31h)
Solaris 10 Update 7 (05/09) (SunFC emlxs FCA v20090717-2.40s)
Solaris 10 Update 8 (10/09) (SunFC emlxs FCA v20090717-2.40s)

  - 4g - SG-XPCIE1FC-EM4, SG-XPCIE2FC-EM4
  - 8g - SG-XPCIE1FC-EM8-Z, SG-XPCIE2FC-EM8-Z
Solaris 10 Update 4 (08/07) (SunFC emlxs FCA v20070604-2.20k)
Solaris 10 Update 4 (08/07) (SunFC emlxs FCA v20071022-2.21h)
Solaris 10 Update 5 (05/08) (SunFC emlxs FCA v20071221-2.30g)
Solaris 10 Update 6 (10/08) (SunFC emlxs FCA v20080616-2.31h)
Solaris 10 Update 7 (05/09) (SunFC emlxs FCA v20090717-2.40s)
Solaris 10 Update 8 (10/09) (SunFC emlxs FCA v20090717-2.40s)

Refer to the Vendor's release notes for specfics on which HBAs\OS combo's are supported.
The Sun HBAs must have Sun firmware and be supported by the San Foundation Suite.
Dual-ported adapters appear as two separate adapters. |

Multipathing, Volume Managers, File Systems	**Version**	**Platform**	**Comment**
HDLM	5.9, 5.9.3, 5.9.4 6.0, 6.1	Solaris 9, 10 (SPARC)	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.
PowerPath	5.0.0, 5.1, 5.2 5.1, 5.2, 5.3	Solaris 9, 10 (SPARC) Solaris 10 (x86_64)	Symmetrix, CLARiiON, DMX Refer to the Vendor's release notes for specfics on which Powerpath\OS combo's are supported.
Sun StorEdge Traffic Manager (MPxIO)	11.10.0 11.9.0	Solaris 10 (SPARC, x86_64) Solaris 9 (SPARC)	
VxVM/VxDMP	4.1, 5.0 5.0	Solaris 9, 10 (SPARC) Solaris 10 (x86_64)	note: the version of VxVM reported internally may differ from the marketing/sold version VXVM layered volumes are not supported.
SVM	Native OS version	Solaris 9, 10 (SPARC) Solaris 10 (x86_64)	

File System (VxFS)	4.1, 5.0	Solaris 9, 10 (SPARC)	
	5.0	Solaris 10 (x86_64)	
ZFS	Solaris 10 Update 6/06 and later	Solaris 10 (SPARC) Solaris 10 (x86_64)	Support for ZFS Storage Pools, ZFS volumes, ZFS Snapshots, ZFS Clones and ZFS File Systems

Clusters

It is "cluster aware" with the use of the Cluster Builder capability in which the user manually assigns a cluster node to a cluster name or cluster virtual IP address.

Where noted below, product supports "clustering" in which the product provides automatic agent-based cluster discovery.

There are 2 ways of supporting clusters:

1. "Cluster Builder" - with the use of the Cluster Builder capability , the user can manually assign a cluster node to a cluster (host) name or cluster virtual IP address. This is "Cluster Aware."

2. "Automatic Cluster Discovery" - by installing a CIM extension on a host, the product supports automatic cluster discovery (see table below for supported environments).

In both cases, cluster topology, capacity and properties are represented.

Clusters	Version	Platform	Comment
Veritas Cluster Server	4.1, 5.0	Solaris 9, 10 (SPARC)	Clustering support for VCS
	5.0	Solaris 10 (x86_64)	When used with Oracle RAC/Solaris, Oracle RAC has cluster support (Oracle RAC performance metrics included)

Solaris Zones	Version	Platform	Comment
Solaris Global Zone	Solaris 10	Solaris	Solaris global zones are supported on SPARC architecture only. Supports everyting that is currently supported for Solaris 10 host.
Solaris Non Global Zone	Solaris 9, Solaris 10	Solaris	Non global zone computer system properties will be shown. Topology stitching, Capacity information for ufs, lofs, vxfs and nfs file Systems are supported. Raw devices(disk partitions/SVM volumes) will not be reported if file systems are not present on them. Only Logical Disk Collector is available Oracle Application is supported on non-global zones. Oracle application will be supported only on File Systems, raw partitions will not be supported. Oracle RAC and fail-over clusters are not supported on non-global zones. Veritas Cluster ready non global zones are shown only on active node.

			Veritas provides workarounds to present raw vxvm volumes to Solaris non global zones. This will not be supported. CIM Extensions should not be installed on non global zone IPv6 Support: Solaris Non Global Zone configured with IPv6 address is supported. Oracle running on Solaris non Global zone with IPv6 address is not supported.