



Note: This document contains support information for only the 3 most recent versions of Hitachi Dynamic Link Manager Advanced. If you require support for previous versions, please ask your Hitachi Data Systems contact.

Contents	
Section	Description
1	HDLM Advanced Interop Support Matrix Revision Level and Contents
2	Supported Operating Systems, Service Packs and Architectures for Multipathing
3	Windows: Supported Applications, Functions and Storage Systems for Multipathing
4	Windows: Supported Host Bus Adapters for Multipathing
5	Windows: Supported GUID Partition Tables for Multipathing
6	Solaris: Supported Applications, Functions and Storage Systems for Multipathing
7	Solaris: Supported Host Bus Adapters for Multipathing
8	Linux: Supported Applications, Functions and Storage Systems for Multipathing
9	Red Hat Linux: Supported Host Bus Adapters for Multipathing
10	Oracle Unbreakable: Supported Host Bus Adapters for Multipathing
11	SUSE Linux: Supported Host Bus Adapters for Multipathing
12	HP-UX: Supported Applications, Functions and Storage Systems for Multipathing
13	HP-UX: Supported Host Bus Adapters for Multipathing
14	HP-UX: Supported IVM Configurations for Multipathing
15	AIX: Supported Applications, Functions and Storage Systems for Multipathing
16	AIX: Supported Host Bus Adapters for Multipathing
17	AIX: Supported Maintenance Levels for Multipathing
18	AIX: Supported Virtual I/O Configurations for Multipathing
19	AIX: Supported Global Parallel File System Configurations for Multipathing
20	VMWare: Supported Applications, Functions and Storage Systems for Multipathing
21	Supported JRE Versions for Multipathing
22	Supported Clusters and Volume Managers for Multipathing
23	Supported Oracle 9i RAC Configurations for Multipathing
24	Supported Oracle 10g RAC Configurations for Multipathing
25	Supported Oracle 11g RAC Configurations for Multipathing
26	Centralized Management Console(HGLM) Supported Operating Systems
27	Centralized Management Console(HGLM) Supported Functions
28-1	Centralized Management Console(HGLM) Supported Path Manager
28-2	Centralized Management Console(HGLM) Supported HDLM Versions
29	Centralized Management Console(HGLM) Supported Cluster Software
30	Centralized Management Console(HGLM) Supported Browser
31	Centralized Management Console(HGLM) Supported IPv6 Network
32	Centralized Management Console(HGLM) Supported Virtualization
33	Appendix.A

Recent Revision Level Information		
Revision	Date	Description
50	January 31,2011	Additions and modifications...
51	February 28,2011	Additions and modifications...
52	April 28,2011	Additions and modifications...
52-1	May 30,2011	Additions and modifications...
52-2	JUNE 29,2011	Additions and modifications...
53	JULY 30,2011	Additions and modifications...
53-1	September 01,2011	Additions and modifications...
53-2	September 28,2011	Additions and modifications...
54	October 28,2011	Additions and modifications...
54-1	November 30,2011	Additions and modifications...
55	January 05,2012	Additions and modifications...
55-1	February 1,2012	Additions and modifications...
55-2	February 29,2012	Additions and modifications...
55-3	MARCH 30,2012	Additions and modifications...
55-4	April 27,2012	Additions and modifications...
56	May 31,2012	Additions and modifications...
56-1	Jun 29,2012	Additions and modifications...
57	Aug 1,2012	Additions and modifications...
57-1	Aug 31,2012	Additions and modifications...
57-2	Sep 28,2012	Additions and modifications...
58	Oct 31,2012	Additions and modifications...
58-1	Nov 30,2012	Additions and modifications...
58-2	Dec 27,2012	Additions and modifications...
59	Jan 31,2013	Additions and modifications...
59-1	Feb 28,2013	Additions and modifications...
59-2	Mar 29,2013	Additions and modifications...
60	Apr 26,2013	Additions and modifications...
60-1	Jun 21,2013	Additions and modifications...
60-2	Jun 28,2013	Additions and modifications...
60-3	July 31,2013	Additions and modifications...
60-4	Aug 30,2013	Additions and modifications...
61	Sep 30,2013	Additions and modifications...
61-1	Oct 30,2013	Additions and modifications...
61-2	Nov 29,2013	Additions and modifications...
61-3	Dec 26,2013	Additions and modifications...

Trademarks	
HP-UX	is a product name of Hewlett-Packard Company.
IBM, AIX, HACMP, pSeries, and POWER	are registered trademarks of International Business Machines Corporation in the United States and other countries, or both.
Itanium/IA64	is a registered trademark of Intel Corporation or its subsidiaries in the United States and other countries, or both.
Linux	is a trademark of Linus Torvalds in the United States, other countries, or both.
Microsoft, Windows, Windows NT, Microsoft Cluster Server, Windows 2000 Server, and Windows 2003 Server	are registered trademarks of Microsoft Corporation.
Oracle	is a registered trademark of Oracle Corporation and/or its affiliates.
Red Hat	is a registered trademark of Red Hat, Inc. in the United States, other countries, or both.
Solaris, and all Java-based trademarks	are trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.
SUSE	is a registered trademark of Novell, Inc. in the United States, other countries, or both.
Symantec and Symantec Cluster Server	are trademarks of Symantec Software Corporation.
VMware and VMware vSphere	are registered trademarks or trademarks of VMware, Inc. in the United States and/or other jurisdictions.
All other trademarks, service marks, and company names in this document or web site are properties of their respective owners.	

Supported Operating Systems for Multipathing

IMPORTANT NOTE

Security fix kernels can be supported without ISRs if their base kernels are supported and all of conditions below are met.

(1) The security fix kernels are for RHEL4.5/ SLES10 or later.

Boot disk environment of RHEL6.0 security fix kernels is not supported.

(2) Bundled driver versions of the security fix kernels are the same as the bundled driver versions of the supported base kernels.

If your requested security fix kernel is for RHEL4.4/SLES9 or before, or has a different bundled driver version from one of the base kernel, please contact appropriate person in HDS for an Interoperability Support Request (ISR).

Microsoft Windows				HDL Version		
OS Name	Version	Service Pack	Architecture	7.4.1	7.5.0	7.6.0
Windows 2000	Server	SP4	IA32 / x86			
	Advanced Server Datacenter Server					
Windows Server 2003	Standard Edition Web Edition Enterprise Edition Datacenter Edition	No SP	IA32 / x86			
		SP1				
		SP2				
	Enterprise Edition Datacenter Edition	No SP	IA64 / Itanium			
		SP1				
		SP2				
	Standard x64 Edition Enterprise x64 Edition Datacenter x64 Edition	No SP	x64 / x86_64			
		SP2				
	R2 Standard Edition R2 Enterprise Edition R2 Datacenter Edition	No SP	IA32 / x86			
		SP2				
	R2 Standard x64 Edition R2 Enterprise x64 Edition R2 Datacenter x64 Edition	No SP	x64 / x86_64			
		SP2				
Windows Server 2008	Standard Edition Enterprise Edition Datacenter Edition	No SP	IA32 / x86			
		SP2		36	36	36
	Standard Edition Enterprise Edition Datacenter Edition	No SP	x64 / x86_64	35	35	35
		SP2		35,36	35,36	35,36
	Itanium-based Systems	No SP	IA64 / Itanium			
		SP2		36	36	36
	R2 Standard Edition R2 Enterprise Edition R2 Datacenter Edition R2 Web Edition	No SP	x64 / x86_64	35	35	35
		SP1		35, 36	35, 36	35, 36
	R2 Itanium-based Systems	No SP	IA64 / Itanium			
		SP1		36	36	36
Windows Server 2012	Essentials Edition Standard Edition Datacenter Edition	No SP	x64 / x86_64	37	37	37
	R2 Essentials Edition R2 Standard Edition R2 Datacenter Edition	No SP	x64 / x86_64	37	37	37

Supported	
Not Supported	

Notes

35	In Windows Server 2008 and Windows Server 2008 R2 Hyper-V, you can install and use HDLM on the guest OS of Hyper-V for the following environment: - Guest OSs that use Microsoft iSCSI Supported guest OSs: Windows Server 2008 and Windows Server 2008 R2 Supported clusters: MSCS
36	SP can be applied to the multipath environment where HDLM is installed.
37	In Windows Server 2012 Hyper-V, you can install and use HDLM on the guest OS of Hyper-V for the following environments: - Guest OSs that use Microsoft iSCSI Supported guest OSs: Windows Server 2012, Windows Server 2008, and Windows Server 2008 R2 Supported clusters: MSCS - Virtual Fibre Channel Supported guest OSs: Windows Server 2012 Supported clusters: MSCS If you use virtual Fibre Channel, use WWN zoning in a FC-SW topology. Additionally, configure one virtual Fibre Channel adapter for each physical channel port.

Solaris SPARC				HDL Version		
OS Name	Version	Architecture	Kernel Mode	7.4.1	7.5.0	7.6.0
Solaris	8	SPARC	32bit or 64bit	1	1	1
	9		32bit or 64bit	2,3	2,3	2,3
	10		64bit	4,5	4,5,7	4,5,7
	11		64bit	6	6,7	6,7
	11.1		64bit	6,8	6,7,8	6,7,8

Supported	
Not Supported	

Notes	
1	The following patches are required: - 108434-04 or later, 108974-10 or later, 121972-04 or later, and Recommended Patch Cluster Aug/27/02 or later
2	If you are using EFI labels, use Solaris 9 4/03 or later.
3	The following patches are required: - 118335-08 or later, and Recommended Patch Cluster Nov/12/02 or later
4	If you are using ZFS, use Solaris 10 6/06 or later.
5	If you are using a boot disk environment on ZFS, use Solaris 10 9/10 or later.
6	The SRU (Support Repository Updates) below is required. SRUs take the place of maintenance updates or patch bundles that are available for Solaris 10 releases. - SRU 6.6 or later
7	Up to 4096 LUs and up to 8192 paths are supported as HDLM management targets. If you use volume managers, clusterware, or virtualization, check the FRS to make sure the above numbers of LUs and paths are supported for your configuration. If support information is not included in the FRS, up to 256 LUs and up to 4096 paths are supported for the configuration.
8	SAN boot configurations are not supported.

AIX				HDLM Version		
OS Name	Version	Architecture	Kernel Mode	7.4.2	7.5.0	7.6.0
AIX	5.3		32bit or 64bit			
	6.1		64bit	23	23	23
	7.1		64bit	23	23	23

Supported	
Not Supported	

Notes	
23	The Secure by Default functionality of AIX 6.1 and AIX 7.1 is not supported.

HP-UX					HDLM Version		
OS Name	Version	Release	Architecture	Kernel Mode	6.0	6.1	6.5.0
HP-UX	11iV1		PA-RISC	64bit			
	11iV2	September 2004 May 2005 December 2005 March 2006 June 2006 September 2006 June 2007 December 2007 June 2008	Itanium	-			
		September 2004 May 2005 December 2005 March 2006 June 2006 September 2006 June 2007 December 2007 June 2008	PA-RISC	64bit			
	11iV3	There are no plans to support HDLM with HP-UX 11iV3 or later because HP-UX 11iV3 has implemented its own native multipathing solution. Additionally, HP does not recommend nor support 3rd party vendor multipathing on HP-UX 11iV3 or later. All issues relating to multipathing and HP-UX 11iV3 must be discussed directly with HP.					

Supported	
Not Supported	

Red Hat Linux					HDLM Version		
OS Name	Version	Update	Kernel	Architecture	7.4.1	7.5.0	7.6.0
Red Hat Linux ELAS or ELES	3	3	2.4.21-20.EL	Intel x86			
			2.4.21-20.ELsmp				
			2.4.21-20.ELhugemem				
			2.4.21-20.EL	IA64 / Itanium			
		5 + Security Fix	2.4.21-20.EL	EM64T			
			2.4.21-32.0.1.EL	Intel x86			
			2.4.21-32.0.1.ELsmp				
			2.4.21-32.0.1.ELhugemem				
			2.4.21-32.0.1.EL	IA64 / Itanium			
			2.4.21-32.0.1.EL	EM64T			
			2.4.21-32.0.1.EL	AMD64			
			2.4.21-32.0.1.ELsmp				
		8	2.4.21-47.EL	Intel x86			
			2.4.21-47.ELsmp	IA64 / Itanium			
			2.4.21-47.EL	EM64T			
			2.4.21-47.EL	AMD64			
			2.4.21-47.ELsmp				
	3.9	N/A	2.4.21-50.EL	Intel x86			
			2.4.21-50.ELsmp				
			2.4.21-50.ELhugemem				
			2.4.21-50.EL	IA64 / Itanium			
			2.4.21-50.EL	EM64T			
			2.4.21-50.ELsmp	AMD64			
	1		2.6.9-11.EL	Intel x86			
			2.6.9-11.ELsmp				
			2.6.9-11.ELhugemem				
			2.6.9-11.EL	IA64 / Itanium			
			2.6.9-11.EL	EM64T	34, 64	34, 64	34, 64
			2.6.9-11.ELsmp	AMD64			
	3		2.6.9-34.EL	Intel x86			
			2.6.9-34.ELsmp				
			2.6.9-34.ELhugemem				
			2.6.9-34.EL	IA64 / Itanium			

Red Hat Linux ELAS or ELES	4	3 + Security Fix	2.6.9-34.EL 2.6.9-34.ELsmp 2.6.9-34.ELlargesmp	EM64T AMD64	34, 64	34, 64	34, 64
			2.6.9-34.0.2.EL 2.6.9-34.0.2.ELsmp 2.6.9-34.0.2.ELhugemem	Intel x86			
			2.6.9-34.0.2.EL 2.6.9-34.0.2.ELsmp 2.6.9-34.0.2.ELlargesmp	EM64T AMD64	34, 64	34, 64	34, 64
		4	2.6.9-42.EL 2.6.9-42.ELsmp 2.6.9-42.ELhugemem	Intel x86			
			2.6.9-42.ELsmp	AMD x86			
			2.6.9-42.EL	IA64 / Itanium			
			2.6.9-42.EL 2.6.9-42.ELsmp 2.6.9-42.ELlargesmp	EM64T AMD64	34, 64	34, 64	34, 64
		4 + Security Fix	2.6.9-42.0.3.EL 2.6.9-42.0.3.ELsmp 2.6.9-42.0.3.ELhugemem	Intel x86			
			2.6.9-42.0.3.EL	IA64 / Itanium			
			2.6.9-42.0.3.EL 2.6.9-42.0.3.ELsmp 2.6.9-42.0.3.ELlargesmp	EM64T AMD64	34, 64	34, 64	34, 64
Red Hat Linux ELAS or ELES	4.5	None	2.6.9-55.EL 2.6.9-55.ELsmp 2.6.9-55.ELhugemem	Intel x86	26	26	26
			2.6.9-55.EL 2.6.9-55.ELlargesmp	IA64 / Itanium	26	26	26
			2.6.9-55.EL 2.6.9-55.ELsmp 2.6.9-55.ELlargesmp	EM64T AMD64	26 34, 64	26 34, 64	26 34, 64
Red Hat Linux ELAS or ELES	4.6	None	2.6.9-67.EL 2.6.9-67.ELsmp 2.6.9-67.ELhugemem	Intel x86	26	26	26
			2.6.9-67.EL 2.6.9-67.ELlargesmp	IA64 / Itanium	26	26	26
			2.6.9-67.EL 2.6.9-67.ELsmp 2.6.9-67.ELlargesmp	EM64T AMD64	26 34, 64	26 34, 64	26 34, 64
	4.7	None	2.6.9-78.EL 2.6.9-78.ELsmp 2.6.9-78.ELhugemem	Intel x86	26	26	26
			2.6.9-78.EL 2.6.9-78.ELlargesmp	IA64 / Itanium	26	26	26
			2.6.9-78.EL or 2.6.9-78.ELsmp or 2.6.9-78.ELlargesmp	EM64T AMD64	26, 34	26, 34	26, 34
	4.8	None	2.6.9-89.EL 2.6.9-89.ELsmp 2.6.9-89.ELhugemem	Intel x86	26	26	26
			2.6.9-89.EL 2.6.9-89.ELlargesmp	IA64 / Itanium	26	26	26
			2.6.9-89.EL or 2.6.9-89.ELsmp or 2.6.9-89.ELlargesmp	EM64T AMD64	26,34	26,34	26,34
	4.9	None	2.6.9-100.EL 2.6.9-100.ELsmp 2.6.9-100.ELhugemem	Intel x86	26	26	26
			2.6.9-100.EL 2.6.9-100.ELlargesmp	IA64 / Itanium	26	26	26
			2.6.9-100.EL or 2.6.9-100.ELsmp or 2.6.9-100.ELlargesmp	EM64T AMD64	26,34	26,34	26,34
	5	None	2.6.18-8.el5 2.6.18-8.el5PAE	Intel x86	26, 31	26, 31	26, 31
			2.6.18-8.el5	IA64 / Itanium	26	26	26
				EM64T AMD64	26, 31 34, 64	26, 31 34, 64	26, 31 34, 64
Red Hat Linux ELAP or EL	5.1	None	2.6.18-53.el5 2.6.18-53.el5PAE	Intel x86	26 31, 37	26 31, 37	26 31, 37
			2.6.18-53.el5	IA64 / Itanium	26, 37	26, 37	26, 37
				EM64T AMD64	26, 31 34, 37, 64	26, 31 34, 37, 64	26, 31 34, 37, 64
	5.2	None	2.6.18-92.el5 2.6.18-92.el5PAE	Intel x86	26, 31	26, 31	26, 31
			2.6.18-92.el5	IA64 / Itanium	26	26	26
				EM64T AMD64	26, 31 34, 64	26, 31 34, 64	26, 31 34, 64
	5.3	None	2.6.18-128.el5 2.6.18-128.el5PAE	Intel x86	26,38	26,38	26,38
			2.6.18-128.el5	IA64 / Itanium	26,38	26,38	26,38
				EM64T AMD64	26,34,38	26,34,38	26,34,38
	5.4	None	2.6.18-164.el5 2.6.18-164.el5PAE	Intel x86	26,38	26,38	26,38
			2.6.18-164.el5	IA64 / Itanium	26,38	26,38	26,38
				EM64T AMD64	26,34,38	26,34,38	26,34,38
	5.5	None	2.6.18-194.el5 2.6.18-194.el5PAE	Intel x86	26,38	26,38	26,38
			2.6.18-194.el5	IA64 / Itanium	26,38	26,38	26,38
				EM64T AMD64	26,34,38	26,34,38	26,34,38
	5.6	None	2.6.18-238.el5 2.6.18-238.el5PAE	Intel x86	26,38	26,38	26,38
			2.6.18-238.el5	IA64 / Itanium	26,38	26,38	26,38
				EM64T AMD64	26,34,38	26,34,38	26,34,38
			2.6.18-238.el5 2.6.18-274.el5 2.6.18-274.el5PAE	Intel x86	26,38	26,38	26,38

Red Hat Linux ELAP or EL	5.7	None	2.6.18-274.el5	IA64 / Itanium	26,38	26,38	26,38
			2.6.18-274.el5	EM64T AMD64	26,34,38	26,34,38	26,34,38
	5.8	None	2.6.18-308.el5	Intel x86	26,38	26,38	26,38
			2.6.18-308.el5PAE	IA64 / Itanium	26,38	26,38	26,38
			2.6.18-308.el5	EM64T AMD64	26,34,38	26,34,38	26,34,38
			2.6.18-308.el5	Intel x86	26,38	26,38	26,38
	5.9	None	2.6.18-348.el5	IA64 / Itanium	26,38	26,38	26,38
			2.6.18-348.el5PAE	EM64T AMD64	26,34,38	26,34,38	26,34,38
			2.6.18-348.el5	Intel x86	26,38	26,38	26,38
			2.6.18-348.el5	IA64 / Itanium	26,38	26,38	26,38
	5.10	None	2.6.18-371.el5	EM64T AMD64	26,34,38	26,34,38	26,34,38
			2.6.18-371.el5PAE	Intel x86	26,38	26,38	26,38
			2.6.18-371.el5	IA64 / Itanium	26,38	26,38	26,38
			2.6.18-371.el5	EM64T AMD64	26,34,38	26,34,38	26,34,38
			2.6.32-71.el6.i686	Intel x86	26,38	26,38	26,38
			2.6.32-71.el6.x86_64	EM64T AMD64	26,38,68	26,38,68	26,38,68
Red Hat Linux ELAP or EL	6	None	2.6.32-131.0.15.el6.i686	Intel x86	26,38,66	26,38,66	26,38,66
			2.6.32-131.0.15.el6.x86_64	EM64T AMD64	26,38,66,68	26,38,66,68	26,38,66,68
	6.1	None	2.6.32-220.el6.i686	Intel x86	26,38	26,38	26,38
			2.6.32-220.el6.x86_64	EM64T AMD64	26,38,68	26,38,68	26,38,68
	6.2	None	2.6.32-279.el6.i686	Intel x86	26,38	26,38	26,38
			2.6.32-279.el6.x86_64	EM64T AMD64	26,38,68	26,38,68	26,38,68
	6.3	None	2.6.32-358.el6.i686	Intel x86	26,38	26,38	26,38
			2.6.32-358.el6.x86_64	EM64T AMD64	26,38,68	26,38,68	26,38,68
	6.4	None	2.6.32-358.el6.i686	Intel x86	26,38	26,38	26,38
			2.6.32-358.el6.x86_64	EM64T AMD64	26,38,68	26,38,68	26,38,68

Supported	
Not Supported	

Notes	
26	XEN is not supported.
31	GFS and GFS2 are not supported.
34	In an EM64T/AMD64 environment, the RPM (Red Hat Package Manager) packages listed below are required. Install these RPM packages before installing HDLM: - libstdc++-RPM package version.i386.rpm - libgcc-RPM package version.i386.rpm - glibc-RPM package version.i686.rpm Note: RPM-package-version depends on the OS version you are using.
37	The following library is required: glibc-2.5-18.el5_1.1 or later
38	GFS is not supported.
64	Only the 64bit kernel mode is supported.
65	The LVM2 + boot disk environment configuration is not supported.
66	This is supported in HDLM 6.6.2-01 and later.
68	In an EM64T/AMD64 environment, the RPM (Red Hat Package Manager) packages listed below are required. Install these RPM packages before installing HDLM: - libstdc++-RPM package version.i686.rpm - libgcc-RPM package version.i686.rpm - glibc-RPM package version.i686.rpm Note: RPM-package-version depends on the OS version you are using.

Oracle Unbreakable Enterprise Kernel					HDLM Version		
OS Name	Version	Update	Kernel	Architecture	7.4.1	7.5.0	7.6.0
Oracle Unbreakable Enterprise Kernel	5.6	None	2.6.32-100.26.2.el5	EM64T AMD64	26, 34, 38	26, 34, 38	26, 34, 38
			2.6.32-200.13.1.el5uek	Intel x86	26, 34, 38	26, 34, 38	26, 34, 38
	5.7	None	2.6.32-300.27.1.el5uek	Intel x86	26, 34, 38	26, 34, 38	26, 34, 38
			2.6.32-200.13.1.el5uek	EM64T AMD64	26, 34, 38	26, 34, 38	26, 34, 38
			2.6.32-300.27.1.el5uek	EM64T AMD64	26, 34, 38	26, 34, 38	26, 34, 38
			2.6.39-200.29.1.el6uek.i686	Intel x86	26, 38, 68	26, 38, 68	26, 38, 68
	6.2	None	2.6.39-200.29.2.el6uek.i686	Intel x86	26, 38, 68	26, 38, 68	26, 38, 68
			2.6.39-200.29.1.el6uek.x86_64	EM64T AMD64	26, 38, 68	26, 38, 68	26, 38, 68
			2.6.39-200.29.2.el6uek.x86_64	EM64T AMD64	26, 38, 68	26, 38, 68	26, 38, 68
			2.6.39-200.24.1.el6uek.i686	Intel x86	26, 38, 68	26, 38, 68	26, 38, 68
	6.3	None	2.6.39-200.24.1.el6uek.x86_64	EM64T AMD64	26, 38, 68	26, 38, 68	26, 38, 68

Supported	
Not Supported	

Notes	
26	XEN is not supported.

34	In an EM64T/AMD64 environment, the RPM (Red Hat Package Manager) packages listed below are required. Install these RPM packages before installing HDLM: - libstdc++-RPM package version.i386.rpm - libgcc-RPM package version.i386.rpm - glibc-RPM package version.i686.rpm Note: RPM-package-version depends on the OS version you are using.
38	GFS is not supported.
68	In an EM64T/AMD64 environment, the RPM (Red Hat Package Manager) packages listed below are required. Install these RPM packages before installing HDLM: - libstdc++-RPM package version.i686.rpm - libgcc-RPM package version.i686.rpm - glibc-RPM package version.i686.rpm Note: RPM-package-version depends on the OS version you are using.

Oracle Enterprise Linux					HDL Version		
OS Name	Version	Update	Kernel	Architecture	7.4.1	7.5.0	7.6.0
Oracle Enterprise Linux	4	5	2.6.9-55.0.0.0.2.EL	Intel x86	26	26	26
			2.6.9-55.0.0.0.2.ELsmp				
			2.6.9-55.0.0.0.2.ELhugemem				
			2.6.9-55.0.0.0.2.EL	EM64T	26,	26,	26,
			2.6.9-55.0.0.0.2.ELsmp	AMD64	34, 64	34, 64	34, 64
			2.6.9-55.0.0.0.2.ELlargesmp				
		6	2.6.9-67.0.0.0.1.EL	Intel x86	26	26	26
			2.6.9-67.0.0.0.1.ELsmp				
			2.6.9-67.0.0.0.1.ELhugemem				
			2.6.9-67.0.0.0.1.EL	EM64T	26,	26,	26,
			2.6.9-67.0.0.0.1.ELsmp	AMD64	34, 64	34, 64	34, 64
			2.6.9-67.0.0.0.1.ELlargesmp				
	5	1	2.6.18-53.el5	Intel x86	26,31	26,31	26,31
			2.6.18-53.el5 PAE				
	5.4	None	2.6.18-53.el5	EM64T	26,	26,	26,
				AMD64	34, 64, 31	34, 64, 31	34, 64, 31
	5.5	None	2.6.18-164.el5 or 2.6.18-164.el5PAE	Intel x86	26,38	26,38	26,38
			2.6.18-164.el5	EM64T	26,34,38	26,34,38	26,34,38
	5.6	None	2.6.18-194.el5 or 2.6.18-194.el5PAE	Intel x86	26,38	26,38	26,38
			2.6.18-194.el5	EM64T	26,34,38	26,34,38	26,34,38
	5.7	None	2.6.18-238.el5 or 2.6.18-238.el5PAE	Intel x86	26,38	26,38	26,38
			2.6.18-238.el5	EM64T	26,34,38	26,34,38	26,34,38
	5.7	None	2.6.18-274.el5 or 2.6.18-274.el5PAE	Intel x86	26,38	26,38	26,38
			2.6.18-274.el5	EM64T	26,34,38	26,34,38	26,34,38

Supported	
Not Supported	

Notes	
26	XEN is not supported.
31	GFS and GFS2 are not supported.
34	In an EM64T/AMD64 environment, the RPM (Red Hat Package Manager) packages listed below are required. Install these RPM packages before installing HDLM: - libstdc++-RPM package version.i386.rpm - libgcc-RPM package version.i386.rpm - glibc-RPM package version.i686.rpm Note: RPM-package-version depends on the OS version you are using.
38	GFS is not supported.
64	Only the 64bit kernel mode is supported.

SUSE Linux					HDL Version		
OS Name	Version	Update	Kernel	Architecture	7.4.1	7.5.0	7.6.0
	9	SP4	2.6.5-7.308-default	Intel x86			
			2.6.5-7.308-smp				
			2.6.5-7.308-bigsm				
			2.6.5-7.308-default	IA64 / Itanium			
		SP4 + Security Fix	2.6.5-7.308-64k-pagesize				
			2.6.5-7.308-default	EM64T			
			2.6.5-7.308-smp	AMD64			
			2.6.5-7.315-default	Intel x86			
			2.6.5-7.315-smp				
			2.6.5-7.315-bigsm				
			2.6.5-7.315-default	EM64T			
			2.6.5-7.315-smp	AMD64			
		None	2.6.16.21-0.8-default	Intel x86	26, 29	26, 29	26, 29
			2.6.16.21-0.8-smp				
			2.6.16.21-0.8-bigsm				
			2.6.16.21-0.8-default	IA64 / Itanium	26, 29	26, 29	26, 29
		SP1 + Security Fix	2.6.16.21-0.8-default	EM64T	26	26	26
			2.6.16.21-0.8-smp	AMD64	29, 64	29, 64	29, 64
			2.6.16.46-0.14-default	Intel x86	26	26	26
			2.6.16.46-0.14-smp				
			2.6.16.46-0.14-bigsm				
			2.6.16.46-0.14-default	IA64 / Itanium	26	26	26
			2.6.16.46-0.14-default	EM64T	26, 64	26, 64	26, 64
			2.6.16.46-0.14-smp	AMD64			
			2.6.16.60-0.21-default	Intel x86	26	26	26
			2.6.16.60-0.21-smp				
			2.6.16.60-0.21-bigsm				
			2.6.16.60-0.21-xenpae	Intel x86			

SUSE Linux	10	SP2	2.6.16.60-0.21-default	IA64 / Itanium	26	26	26
			2.6.16.60-0.21-default	EM64T AMD64	26, 64	26, 64	26, 64
			2.6.16.60-0.21-smp	EM64T AMD64			
			2.6.16.60-0.21-xen	EM64T AMD64	64	64	64
		SP3	2.6.16.60-0.54.5-default	Intel x86	26	26	26
			2.6.16.60-0.54.5-smp				
			2.6.16.60-0.54.5-bigsmp				
			2.6.16.60-0.54.5-xenpae	Intel x86			
			2.6.16.60-0.54.5-default	IA64 / Itanium	26	26	26
			2.6.16.60-0.54.5-default	EM64T AMD64	26, 64	26, 64	26, 64
			2.6.16.60-0.54.5-smp	EM64T AMD64	64	64	64
		SP4	2.6.16.60-0.85.1-default	Intel x86	26	26	26
			2.6.16.60-0.85.1-smp				
			2.6.16.60-0.85.1-bigsmp				
			2.6.16.60-0.85.1-xenpae	Intel x86			
			2.6.16.60-0.85.1-default	IA64 / Itanium	26	26	26
			2.6.16.60-0.85.1-default	EM64T AMD64	26, 64	26, 64	26, 64
	11	None+Security Fix	2.6.16.60-0.85.1-smp	EM64T AMD64	64	64	64
			2.6.16.60-0.85.1-xen				
			2.6.27.21-0.1.2-default	Intel x86	26	26	26
			2.6.27.21-0.1.2-pae				
		SP1	2.6.27.21-0.1.2-xen	Intel x86 EM64T AMD64			
			2.6.27.21-0.1.2-default	IA64 / Itanium	26	26	26
			2.6.27.21-0.1.2-default	EM64T AMD64	26	26	26
			2.6.32.12-0.7.1-default	Intel x86	26	26	26
			2.6.32.12-0.7.1-pae				
			2.6.32.12-0.7.1-xen	Intel x86 EM64T AMD64			
		SP2	2.6.32.12-0.7.1-default	IA64 / Itanium	26	26	26
			2.6.32.12-0.7.1-default	EM64T AMD64	26	26	26
			3.0.13-0.27-default	Intel x86	26	26	26
			3.0.13-0.27-smp	IA64 / Itanium	26	26	26
		SP3	3.0.13-0.27-default	EM64T AMD64	26	26	26
			3.0.76-0.11-default	Intel x86			26
			3.0.76-0.11-smp	IA64 / Itanium			26
			3.0.76-0.11-default	EM64T AMD64			26

Supported	
Not Supported	

Notes	
26	XEN is not supported.
29	Make sure that the package gdb-6.5-21.2 is applied.
64	Only the 64bit kernel mode is supported.

VMware					HDLN Version		
Name	Version	Update	Kernel	Architecture	7.4.1	7.5.0	7.6.0
VMware vSphere ESXi	5.0	None		EM64T or AMD64	1	1	1
		1		EM64T or AMD64	1	1	1
		2		EM64T or AMD64	1	1	1
	5.1	None		EM64T or AMD64	1	1	1
		1		EM64T or AMD64	1	1	1
	5.5	None		EM64T or AMD64			1

Supported	
Not Supported	

Notes	
1	According to the VMware ESXi 5.0/5.1/5.5 End User License Agreement (EULA), HDLM can only be used on either the Enterprise or Enterprise Plus VMware ESXi Editions.

Microsoft Windows			HDL Version		
			7.4.1	7.5.0	7.6.0
Product Modifications and Additional Functions	Manual Fail Over				
	Manual Fail Back				
	Automatic Fail Over				
	Automatic Fail Back				
	Load Balance (Round Robin)				
	Load Balance (Extended Round Robin)				
	Load Balance (Least I/O)				
	Load Balance (Extended Least I/O)				
	Load Balance (Least Blocks)				
	Load Balance (Extended Least Blocks)				
	Load Balance under MSCS				
	Automatic Discovery				
	Error Log				
	CLI				
	GUI		14	14	14
	Path Blockade				
	Health check				
	Online(E)				
	Health check Time(1min to 24 hr)				
	Support HBA without restrained PnP option.				
	Dynamic Reconfiguration				
	Offline for each HBA (CLI)				
	Target Side Failover				
	HMDE support		2	2	2
	Boot Disk (FC SAN)		1, 6	1, 6	1, 6
	Upgrade install		5, 8, 9	5, 8, 9	5, 8, 9
	Service Pack				
	Digital Signature				
	Boot Disk (iSCSI)		13	13	13
	Boot Disk (FCoE)		18	18	18
	internationalization environment				
	PGR reset utility				
	Unattended Installation				
	Audit Log				
	HDL Component Install Utility				
	HDL Component Uninstall Utility				
	HDL Core Components Install (Non-Java)				
	Hyper-V		3	3	3
	The function of displaying WWN of a HBA port				
	online/offline by HBA port WWN				
	High Availability Manager (limited support)		16	16	
	Dynamic I/O Path Control		15	15	15
	Specifying the number of times the same path can be used for I/O operations when the load balancing is used.				
Supported Storage	Storage Subsystem	Interface	Microcode version		
	Hitachi Lightning 9900V	Fibre Channel	21-02-21-XX/XX or later		
		iSCSI	21-11-01-XX/XX or later		
	Hitachi Universal Storage Platform	Fibre Channel	50-01-19-XX/XX or later		
		iSCSI	50-06-00-XX/XX		
	Hitachi Universal Storage Platform V	Fibre Channel	60-01-XX-XX/XX or later		
	Hitachi Universal Storage Platform VM	Fibre Channel	60-01-61-XX/XX or later		
		Fibre Channel	70-01-00-XX/XX or later		
	Hitachi Virtual Storage Platform	Fibre Channel over Ethernet	70-02-00-XX/XX or later		
	Hitachi Unified Storage VM	Fibre Channel	73-01-0X-XX/XX or later		
	Hitachi Network Storage Controller NSC55	Fibre Channel	50-03-94-XX/XX or later		
		iSCSI	50-06-13-XX/XX or later		
	Hitachi Thunder 9530V	Fibre Channel	0651/D or later		
	Hitachi Thunder 9570V	Fibre Channel	0651/D or later		
	Hitachi Thunder 9580V	Fibre Channel	1654/A or later		
	Hitachi Adaptable Modular Storage AMS200	Fibre Channel	0712/A or later		
	Hitachi Adaptable Modular Storage AMS500	iSCSI	0732/A or later		
	Hitachi Adaptable Modular Storage AMS1000	Fibre Channel	0712/A or later		
		iSCSI	0732/A or later		
	Hitachi Adaptable Modular Storage AMS2100	Fibre Channel	0832/E or later		
		iSCSI	0846/A or later		
	Hitachi Adaptable Modular Storage AMS2300	Fibre Channel	0832/E or later		
		iSCSI	0846/A or later		
	Hitachi Adaptable Modular Storage AMS2500	Fibre Channel	0832/E or later		
		iSCSI	0846/A or later		
	Hitachi Workgroup Modular Storage WMS100	Fibre Channel	0720/A or later		
		iSCSI	0732/A or later		
	Hitachi Unified Storage 110	Fibre Channel	0915/A or later		
		iSCSI	0915/A or later		
	Hitachi Unified Storage 130	Fibre Channel	0915/A or later		
		iSCSI	0915/A or later		
	Hitachi Unified Storage 150	Fibre Channel	0915/A or later		
		iSCSI	0915/A or later		
	SMS 100	Fibre Channel	1810/N or later		
		iSCSI			
	EMC Symmetrix DMX Series	Fibre Channel		4	4
	EMC CLARiiON CX Series	Fibre Channel		10, 11	10, 11
	HP StorageWorks XP128 Disk Array	Fibre Channel	21-03-03-XX/XX or later		
	HP StorageWorks XP1024 Disk Array	Fibre Channel	21-03-03-XX/XX or later		
	HP StorageWorks XP10000 Disk Array	Fibre Channel	50-03-94-XX/XX or later		
	HP StorageWorks XP12000 Disk Array	Fibre Channel	50-03-94-XX/XX or later		
	HP StorageWorks XP20000 Disk Array	Fibre Channel	60-01-61-XX/XX or later		
	HP StorageWorks XP24000 Disk Array	Fibre Channel	60-01-XX-XX/XX or later		
	HP StorageWorks P9500 Disk Array	Fibre Channel	70-01-00-XX/XX or later		
		Fibre Channel over Ethernet	70-02-00-XX/XX or later		
	SVS	Fibre Channel	50-07-01-XX/XX or later		
	HP EVA Series	Fibre Channel		12, 17	12, 17

Exclusive Products	Hitachi Path Manager	7	7	7
	VxVM-DMP	7	7	7
	PowerPath	7	7	7
	SDD	7	7	7
	HDL for VMware			

Supported	
Not Supported	

Notes	
1	See the HBA vendor's support matrix to determine which HBAs and drivers support SAN Boot. HDLM supports all of the specified HBAs and drivers.
2	This is supported by the following OSs: - Windows 2000 SP4 (IA32 / x86) - Windows 2003 (x86 and x64) - Windows 2003 SP1 (IA32 / x86) with MSCS only - Windows 2003 R2 (x86 and x64) - Windows 2003 R2 SP2 (x64)
3	This is only supported in the following versions: Standard Edition x64, Enterprise Edition x64, and Datacenter Edition x64 This is only supported on the following conditions: - HDLM can be used only on the host OS. HDLM cannot be used on the guest OS. - Clustering cannot be used with the guest OS. The guest OS must be used in a standalone configuration.
4	The evaluation of EMC DMX3000 has been completed in the following environments: OS: Windows 2003 SP1 and later (IA32 / x86) Windows 2003 SP1 and later (Itanium / IA64) Microcode version: 5670.83 Failover Mode: 1
5	Update installation is available in HDLM 5.5.0 and later.
6	In Itanium / IA64 environments, the boot disk must be GPT.
7	This product is mutually exclusive with HDLM.
8	In Windows Server 2008, HDLM can be upgraded while multipath is configured.
9	In Windows Server 2003 SP1 or later (including R2), HDLM can be upgraded while multipath is configured.
10	The evaluation of EMC CX700 has been completed in the following environments: OS: Windows 2003 SP1 and later (IA32 / x86) Windows 2003 (x64) Windows 2003 SP1 and later (Itanium / IA64) Microcode version: 02.07.700.5.021 Failover Mode: 1 When using the EMC CX series with Failover Mode 1, connect only one storage port to the switch, and then connect the switch to the server in a multipath configuration.
11	The evaluation of EMC CX3-10 with Failover Mode 2 has been completed in the following environments: OS: Windows 2003 SP2 (x64) Microcode version: 03.26.010.5.019 Failover Mode: 2 The evaluation of EMC CX3-10 with Failover Mode 1 has been completed in the following environments: OS: Windows 2008 (IA32 / x86) Windows 2008 (x64) Windows 2008 (Itanium / IA64) Microcode version: 03.26.010.5.019 Failover Mode: 1 When using the EMC CX series with Failover Mode 1, connect only one storage port to the switch, and then connect the switch to the server in a multipath configuration.
12	The evaluation of HP EVA8000 has been completed in the following environments: OS: Windows 2003 SP1 and later (IA32 / x86) Windows 2003 (x64) Windows 2003 SP1 and later (Itanium / IA64)
13	This is supported by the following OSs: - Windows 2008 and later (IA32/x86 and x64) - Windows 2008 R2 (x64)
14	HDLM 6.6.0 or later is required for the disk number display.
15	Microprogram version 08B8/D or later is required for using Dynamic I/O Path Control on the Hitachi AMS2000 series/Hitachi SMS series.
16	Supported with some conditions customer-by-customer basis (SUI 044226). Please contact appropriate person in HDS.
17	The evaluation of HP EVA6400/4400 has been completed in the following environments: OS: Windows 2008 R2 x64 Windows 2008 R2 x64 SP1
18	This is only supported by Windows 2003 R2 SP2 if you use Windows 2003 environments.

IMPORTANT NOTE

HDL M is dependent only on the driver version, not the HBA model. For this reason, specific HBA models are no longer listed, just driver versions. So if the HBA driver version is supported, then HDL M is supported. This also means that OEM versions are supported, as long as the driver is supported.

All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.

Windows 2003 (IA32 / x86)			HDL M Version		
OS	HBA	Driver	7.4.1	7.5.0	7.6.0
Windows 2003 (IA32 / x86)	Fibre Channel	Emulex	SCSI Miniport 5-5.00a10		
			SCSI Miniport 5.01a0		
			SCSI Miniport 5.10a10		
			SCSI Miniport 5.20a9		
			STOR Miniport 5-1.00a15		
			STOR Miniport 1.02a3		
			STOR Miniport 1.03a9		
			STOR Miniport 1.10a4		
			STOR Miniport 1.20a3		
			STOR Miniport 2.01a4		
			STOR Miniport 2.50.007		
		QLogic	SCSI Miniport 9.0.1.10		
			SCSI Miniport 9.0.1.12		
			SCSI Miniport 9.1.0.11		
			STOR Miniport 9.0.2.16		
			STOR Miniport 9.1.0.15		
			STOR Miniport 9.1.0.16		
			STOR Miniport 9.1.2.19		
			STOR Miniport 9.1.3.16		
			STOR Miniport 9.1.4.15		
			SCSI Miniport 9.1.3.11		
		HP	STOR Miniport 1.02a7		
			STOR Miniport 1.11a1		
	iSCSI HBA/CNA	IBM	STOR Miniport 9.1.0.16		
		Adaptec	1.2		
		Intel	Microsoft Initiator 1.05a		
			Microsoft Initiator 2.0		
			Microsoft Initiator 2.01		
			Microsoft Initiator 2.02		

Supported

Not Supported

Notes

Windows 2003 (Itanium / IA64)			HDL M Version		
OS	HBA	Driver	7.4.1	7.5.0	7.6.0
Windows 2003 (Itanium / IA64)	Fibre Channel	Emulex	SCSI Miniport 5.00a10		
			SCSI Miniport 5.00a11		
			SCSI Miniport 5.10a10		
			STOR Miniport 1.00a15		
			STOR Miniport 1.01a9		
			STOR Miniport 1.02a3		
			STOR Miniport 1.10a4		
			STOR Miniport 1.20a3		
			STOR Miniport 1.30a6		
		QLogic	SCSI Miniport 8.2.3.11		
			SCSI Miniport 9.0.1.10		
			SCSI Miniport 9.0.1.12		
			SCSI Miniport 9.1.2.11		
			STOR Miniport 9.1.2.19		

Supported

Not Supported

Notes

Windows 2003 (X64 / x86_64)				HDL Version		
OS	HBA		Driver	7.4.1	7.5.0	7.6.0
Windows 2003 (X64 / x86_64)	Fibre Channel	Emulex	STOR Miniport 1.10a4			
			STOR Miniport 1.11a0			
			STOR Miniport 1.11a1			
			STOR Miniport 1.11a3			
			STOR Miniport 1.10x1			
			STOR Miniport 1.20a3			
			STOR Miniport 1.20a7			
			STOR Miniport 1.30a9			
			STOR Miniport 2.00a12			
			STOR Miniport 2.01a4			
		Qlogic	SCSI Miniport 9.1.0.11			
			STOR Miniport 9.1.0.16			
			STOR Miniport 9.1.0.18			
			STOR Miniport 9.1.2.16			
			STOR Miniport 9.1.2.19			
			STOR Miniport 9.1.3.16			
			STOR Miniport 9.1.4.15			
			STOR Miniport 9.1.7.16			
			STOR Miniport 9.1.7.17			
			STOR Miniport 9.1.8.25			
		HP	STOR Miniport 9.1.8.27			
			STOR Miniport 1.10x1			
			STOR Miniport 1.11x1			
			STOR Miniport 9.1.3.18			
		Hitachi	Bundle	1	1	1
	iSCSI HBA/CNA	Microsoft	Microsoft Initiator 2.05			
	Fibre Channel over Ethernet	Microsoft	Microsoft Initiator 2.07			
		QLogic	STOR Miniport 2.1.4.19			

Supported	
Not Supported	

Notes	
1	All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.

Windows 2003 SP1 (IA32 / x86)				HDL Version		
OS	HBA		Driver	7.4.1	7.5.0	7.6.0
Windows 2003 SP1 (IA32 / x86)	Fibre Channel	Emulex	SCSI Miniport 5.10a9			
			SCSI Miniport 5.10a10			
			SCSI Miniport 5.20a8			
			SCSI Miniport 5.20a9			
			SCSI Miniport 5.30a2			
			STOR Miniport 1.10a4			
			STOR Miniport 1.10x1			
			STOR Miniport 1.11a0			
			STOR Miniport 1.11a1			
			STOR Miniport 1.11a3			
			STOR Miniport 1.20a3			
			STOR Miniport 1.20a7			
			STOR Miniport 1.30a6			
			STOR Miniport 1.30a9			
			STOR Miniport 2.00a12			
			STOR Miniport 2.01a4			
		QLogic	SCSI Miniport 9.0.0.12			
			SCSI Miniport 9.0.1.12			
			SCSI Miniport 9.0.2.11			
			SCSI Miniport 9.1.0.11			
			SCSI Miniport 9.1.0.13			
			SCSI Miniport 9.1.2.11			
			SCSI Miniport 9.1.3.11			
			STOR Miniport 9.0.2.16			
			STOR Miniport 9.1.0.16			
			STOR Miniport 9.1.2.16			
			STOR Miniport 9.1.2.17			
			STOR Miniport 9.1.2.19			
			STOR Miniport 9.1.3.16			
			STOR Miniport 9.1.4.15			
			STOR Miniport 9.1.7.16			
			STOR Miniport 9.1.7.18			
			STOR Miniport 9.1.8.19			
			STOR Miniport 9.1.8.25			
			STOR Miniport 9.1.9.26			
		HP	SCSI Miniport 8.2.3.11			
			STOR Miniport 9.1.0.18			
			STOR Miniport 9.1.7.17			
			STOR Miniport 9.1.8.27			
		IBM	STOR Miniport 9.1.9.26			
			SCSI Miniport 9.0.1.93			
			SCSI Miniport 9.1.0.60	3	3	3
			SCSI Miniport 9.1.2.14			
		Hitachi	STOR Miniport 9.1.0.15			
			Bundle	1	1	1
	iSCSI HBA/CNA	Microsoft	Microsoft Initiator 2.0	2	2	2
			Microsoft Initiator 2.01			
			Microsoft Initiator 2.02			
			Microsoft Initiator 2.05			
			Microsoft Initiator 2.07			
	iSCSI	QLogic	STOR Miniport 2.1.0.8			
			STOR Miniport 2.1.2.5			

Supported	
Not Supported	

Notes	
1	All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.
2	Microsoft iSCSI Initiator is required.
	When using this driver with HDLM, delete the following registry data: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ql2300\Parameters\Device Value: DriverParameter
3	Data: buschange=0

Windows 2003 SP1 (Itanium / IA64)				HDL Version		
OS	HBA	Driver		7.4.1	7.5.0	7.6.0
Windows 2003 SP1 (Itanium / IA64)	Fibre Channel	Emulex	SCSI Miniport 5.10a10			
			SCSI Miniport 5.20a8			
			SCSI Miniport 5.20a9			
			STOR Miniport 1.10a4			
			STOR Miniport 1.11a0			
			STOR Miniport 1.11a3			
			STOR Miniport 1.20a3			
			STOR Miniport 1.20a7			
			STOR Miniport 1.30a6			
			STOR Miniport 1.30a9			
			STOR Miniport 2.00a12			
			STOR Miniport 2.01a4			
		QLogic	SCSI Miniport 9.0.1.12			
			SCSI Miniport 9.1.2.11			
			STOR Miniport 9.0.2.16			
			STOR Miniport 9.1.2.16			
			STOR Miniport 9.1.2.19			
			STOR Miniport 9.1.4.15			
		Hitachi	Bundle	1	1	1
	iSCSI HBA/CNA	Intel	Microsoft Initiator 2.05			

Supported	
Not Supported	

Notes	
1	All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.

Windows 2003 SP2 (IA32 / x86)				HDL Version		
OS	HBA	Driver		7.4.1	7.5.0	7.6.0
Windows 2003 SP2 (IA32 / x86)	Fibre Channel	Emulex	SCSI Miniport 5.10a9			
			SCSI Miniport 5.10a10			
			SCSI Miniport 5.30a2			
			STOR Miniport 1.11a0			
			STOR Miniport 1.20a3			
			STOR Miniport 1.20a7			
			STOR Miniport 1.30a6			
			STOR Miniport 1.30a9			
			STOR Miniport 2.00a12			
			STOR Miniport 2.01a4			
			STOR Miniport 2.10a7			
			STOR Miniport 2.20.006			
			STOR Miniport 2.30.020			
			STOR Miniport 2.32.002			
			STOR Miniport 2.33.008			
			STOR Miniport 2.41.003			
			STOR Miniport 2.50.007			
			STOR Miniport 2.70.018			
		QLogic	SCSI Miniport 9.1.0.11			
			SCSI Miniport 9.1.0.13			
			SCSI Miniport 9.1.3.11			
			SCSI Miniport 9.1.4.10			
			STOR Miniport 9.0.2.16			
			STOR Miniport 9.1.0.16			
			STOR Miniport 9.1.2.16			
			STOR Miniport 9.1.2.19			
			STOR Miniport 9.1.3.16			
			STOR Miniport 9.1.4.6			
			STOR Miniport 9.1.4.15			
			STOR Miniport 9.1.7.16			
			STOR Miniport 9.1.7.18			
			STOR Miniport 9.1.8.19			
			STOR Miniport 9.1.8.25			
			STOR Miniport 9.1.8.35			
		HP	STOR Miniport 9.1.9.26			
			STOR Miniport 9.1.3.16			
			STOR Miniport 9.1.3.18			
			STOR Miniport 9.1.7.17			
		Hitachi	STOR Miniport 9.1.7.65			
			STOR Miniport 9.1.8.27			
			STOR Miniport 9.1.8.28			
			STOR Miniport 9.1.9.26	1	1	1
		IBM	Bundle			
			STOR Miniport 9.1.7.18			
			STOR Miniport 9.1.7.55			
			STOR Miniport 9.1.8.25			
		Brocade	STOR Miniport 9.1.8.35			
			STOR Miniport 9.1.9.25			
			1.0.0-06			
			1.1.0.1			
			2.1.0.0			
			2.2.0.0			
			2.3.0.0			
			3.0.0.0			
	iSCSI HBA/CNA	Microsoft	Microsoft Initiator 2.05			
			Microsoft Initiator 2.07			
	Fibre Channel over Ethernet	Emulex	STOR Miniport 2.10a7			
			STOR Miniport 2.32.002			
			STOR Miniport 2.70.018			
		QLogic	STOR Miniport 2.1.4.19			
			STOR Miniport 9.1.7.18			
		Brocade	STOR Miniport 2.2.0.0			

Supported	
Not Supported	

Notes	
1	All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.

Windows 2003 SP2 (Itanium / IA64)				HDL M Version		
OS	HBA	Driver		7.4.1	7.5.0	7.6.0
Windows 2003 SP2 (Itanium / IA64)	Fibre Channel	Emulex	STOR Miniport 1.20a3			
			STOR Miniport 1.20a7			
			STOR Miniport 1.30a9			
			STOR Miniport 1.30a6			
			STOR Miniport 1.30a9			
			STOR Miniport 2.00a12			
			STOR Miniport 2.01a4			
			STOR Miniport 2.20.006			
			STOR Miniport 2.33.008			
			STOR Miniport 2.50.007			
		QLogic	STOR Miniport 9.1.0.16			
			STOR Miniport 9.1.2.19			
			STOR Miniport 9.1.4.15			
		HP	STOR Miniport 9.1.0.16			
			STOR Miniport 9.1.7.17			
		Hitachi	Bundle	1	1	1
	iSCSI HBA/CNA	Intel	Microsoft Initiator 2.05			

Supported	
Not Supported	

Notes	
1	All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.

Windows 2003 SP2 (X64 / x86_64)				HDL M Version		
OS	HBA		Driver	7.4.1	7.5.0	7.6.0
Windows 2003 SP2 (X64 / x86_64)	Fibre Channel	Emulex	STOR Miniport 1.20a3			
			STOR Miniport 1.20a7			
			STOR Miniport 1.30a9			
			STOR Miniport 2.00a12			
			STOR Miniport 2.01a4			
			STOR Miniport 2.10a7			
			STOR Miniport 2.20.006			
			STOR Miniport 2.30.020			
			STOR Miniport 2.32.002			
			STOR Miniport 2.33.008			
			STOR Miniport 2.41.002			
			STOR Miniport 2.41.003			
			STOR Miniport 2.50.007			
			STOR Miniport 2.70.018			
		QLogic	SCSI Miniport 9.1.0.11			
			STOR Miniport 9.1.0.16			
			STOR Miniport 9.1.0.18			
			STOR Miniport 9.1.2.16			
			STOR Miniport 9.1.2.19			
			STOR Miniport 9.1.3.16			
			STOR Miniport 9.1.3.18			
			STOR Miniport 9.1.4.15			
			STOR Miniport 9.1.7.16			
			STOR Miniport 9.1.7.17			
			STOR Miniport 9.1.7.18			
			STOR Miniport 9.1.8.16			
			STOR Miniport 9.1.8.17			
			STOR Miniport 9.1.8.19			
			STOR Miniport 9.1.8.25			
			STOR Miniport 9.1.8.27			
			STOR Miniport 9.1.9.25			
			STOR Miniport 9.1.9.26			
		HP	STOR Miniport 9.1.9.25			
			STOR Miniport 9.1.9.26			
		Hitachi	Bundle	1	1	1
		Brocade	1.0.0-06			
			1.1.0.1			
			2.1.0.0			
			2.2.0.0			
			2.3.0.0			
			2.3.0.0			
		IBM	STOR Miniport 9.1.7.55			
			STOR Miniport 9.1.8.25			
	iSCSI HBA/CNA	Microsoft	Microsoft Initiator 2.05			
			Microsoft Initiator 2.07			
	Fibre Channel over Ethernet	Emulex	STOR Miniport 2.10a7			
			STOR Miniport 2.32.002			
			STOR Miniport 2.70.018			
		QLogic	STOR Miniport 2.1.4.19			
			STOR Miniport 9.1.7.18			
			STOR Miniport 9.1.9.15			
		Brocade	STOR Miniport 2.2.0.0			
		HP	STOR Miniport 2.50.007			

Supported	
Not Supported	

Notes	
1	All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.

Windows 2003 R2 (IA32 / x86)				HDL Version		
OS	HBA		Driver	7.4.1	7.5.0	7.6.0
Windows 2003 R2 (IA32 / x86)	Fibre Channel	Emulex	SCSI Miniport 5.10.a9			
			SCSI Miniport 5.10a10			
			SCSI Miniport 5.20a8			
			SCSI Miniport 5.20a9			
			SCSI Miniport 5.30a2			
			STOR Miniport 1.10a4			
			STOR Miniport 1.11a0			
			STOR Miniport 1.11a1			
			STOR Miniport 1.11a3			
			STOR Miniport 1.20a3			
			STOR Miniport 1.20a7			
			STOR Miniport 1.30a9			
			STOR Miniport 2.00a12			
			STOR Miniport 2.01a4			
			STOR Miniport 2.33.008			
		QLogic	SCSI Miniport 9.0.1.12			
			SCSI Miniport 9.0.2.11			
			SCSI Miniport 9.1.0.11			
			SCSI Miniport 9.1.0.13			
			SCSI Miniport 9.1.2.11			
			SCSI Miniport 9.1.3.11			
			STOR Miniport 9.0.2.16			
			STOR Miniport 9.1.0.16			
			STOR Miniport 9.1.2.16			
			STOR Miniport 9.1.2.17			
			STOR Miniport 9.1.2.19			
			STOR Miniport 9.1.3.16			
			STOR Miniport 9.1.4.15			
			STOR Miniport 9.1.7.16			
			STOR Miniport 9.1.7.18			
			STOR Miniport 9.1.8.19			
			STOR Miniport 9.1.8.25			
			STOR Miniport 9.1.9.26			
		HP	STOR Miniport 9.1.0.18			
			STOR Miniport 9.1.7.17			
			STOR Miniport 9.1.8.27			
			STOR Miniport 9.1.9.26			
		IBM	SCSI Miniport 9.0.1.93			
			SCSI Miniport 9.1.0.60	3	3	3
			SCSI Miniport 9.1.2.14			
		Hitachi	Bundle	1	1	1
	iSCSI HBA/CNA	Microsoft	Microsoft Initiator v2.0	2	2	2
			Microsoft Initiator v2.01			
			Microsoft Initiator v2.02			
			Microsoft Initiator v2.05			
			Microsoft Initiator v2.07			
		QLogic	STOR Miniport 2.1.0.8			
			STOR Miniport 2.1.2.5			

Supported	
Not Supported	

Notes	
1	All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.
2	Microsoft iSCSI Initiator is required.
3	When using this driver with HDLM, delete the following registry data: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ql2300\Parameters\Device Value: DriverParameter Data: buschange=0

Windows 2003 R2 (X64 / x86_64)				HDL Version		
OS	HBA		Driver	7.4.1	7.5.0	7.6.0
Windows 2003 R2 (X64 / x86_64)	Fibre Channel	Emulex	STOR Miniport 1.10a4			
			STOR Miniport 1.11a0			
			STOR Miniport 1.11a1			
			STOR Miniport 1.11a3			
			STOR Miniport 1.20a3			
			STOR Miniport 1.20a7			
			STOR Miniport 1.30a9			
			STOR Miniport 2.00a12			
			STOR Miniport 2.01a4			
			STOR Miniport 2.33.008			
		QLogic	SCSI Miniport 9.1.0.11			
			STOR Miniport 9.0.2.16			
			STOR Miniport 9.1.0.16			
			STOR Miniport 9.1.0.18			
			STOR Miniport 9.1.2.16			
			STOR Miniport 9.1.2.19			
			STOR Miniport 9.1.3.16			
			STOR Miniport 9.1.4.15			
			STOR Miniport 9.1.7.16			
			STOR Miniport 9.1.8.17			
			STOR Miniport 9.1.8.19			
			STOR Miniport 9.1.8.25			
			STOR Miniport 9.1.8.27			
			STOR Miniport 9.1.9.26			
		HP	STOR Miniport 1.11x1			
			STOR Miniport 9.1.7.17			
			STOR Miniport 9.1.7.18			
		Hitachi	STOR Miniport 9.1.9.26			
			Bundle	1	1	1
		SUN	STOR Miniport 9.1.4.15			
	iSCSI HBA/CNA	Microsoft	Microsoft Initiator v2.05			
	Microsoft Initiator v2.07					
	Fibre Channel over Ethernet	QLogic	STOR Miniport 2.1.4.19			
			STOR Miniport 9.1.8.26			
		HP	STOR Miniport 2.33.008			

Supported	
Not Supported	

Notes
1 All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.

Windows 2003 R2 SP2 (IA32 / x86)				HDL Version		
OS	HBA		Driver	7.4.1	7.5.0	7.6.0
Windows 2003 R2 SP2 (IA32 / x86)	Fibre Channel	Emulex	SCSI Miniport 5.10a9			
			SCSI Miniport 5.30a2			
			STOR Miniport 1.11a0			
			STOR Miniport 1.20a3			
			STOR Miniport 1.20a7			
			STOR Miniport 1.30a9			
			STOR Miniport 2.00a12			
			STOR Miniport 2.01a4			
			STOR Miniport 2.10a7			
			STOR Miniport 2.20.006			
			STOR Miniport 2.30.020			
			STOR Miniport 2.32.002			
			STOR Miniport 2.33.008			
			STOR Miniport 2.50.007			
			STOR Miniport 2.70.018			
		QLogic	SCSI Miniport 9.1.0.11			
			SCSI Miniport 9.1.0.13			
			SCSI Miniport 9.1.3.11			
			SCSI Miniport 9.1.4.10			
			STOR Miniport 9.1.0.16			
			STOR Miniport 9.1.2.16			
			STOR Miniport 9.1.2.19			
			STOR Miniport 9.1.3.16			
			STOR Miniport 9.1.4.15			
			STOR Miniport 9.1.7.16			
			STOR Miniport 9.1.7.18			
			STOR Miniport 9.1.8.19			
			STOR Miniport 9.1.8.25			
			STOR Miniport 9.1.8.35			
			STOR Miniport 9.1.9.26			
		STOR Miniport 9.1.9.49				
		HP	STOR Miniport3.0.0.0			
			STOR Miniport 9.1.3.18			
			STOR Miniport 9.1.6.15			
			STOR Miniport 9.1.7.17			
			STOR Miniport 9.1.7.65			
			STOR Miniport 9.1.8.25			
			STOR Miniport 9.1.8.27			
		IBM	STOR Miniport 9.1.9.25			
			STOR Miniport 9.1.9.26			
			STOR Miniport 9.1.2.17			
			STOR Miniport 9.1.7.18			
		Hitachi	STOR Miniport 9.1.8.25			
			STOR Miniport 9.1.8.35			
			Bundle	1	1	1
			Brocade	1.0.0-06		
		1.1.0.1				
		2.1.0.0				
		2.2.0.0				
	2.3.0.0					
		3.0.0.0				
iSCSI HBA/CNA	Microsoft	Microsoft Initiator v2.05				
Microsoft Initiator v2.07						
Fibre Channel over Ethernet	Emulex	STOR Miniport 2.10a7				
		STOR Miniport 2.32.002				
		STOR Miniport 2.70.018				
	QLogic	STOR Miniport 2.1.4.19				
		STOR Miniport 9.1.7.18				
	Brocade	STOR Miniport 9.1.8.26				
		STOR Miniport 2.2.0.0				

Supported	
Not Supported	

Notes					
1 All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.					

Windows 2003 R2 SP2 (X64 / x86_64)			HDLM Version				
OS	HBA	Driver	7.4.1	7.5.0	7.6.0		
Windows 2003 R2 SP2 (X64 / x86_64)	Fibre Channel	Emulex	STOR Miniport 1.20a3				
			STOR Miniport 1.20a7				
			STOR Miniport 1.30a9				
			STOR Miniport 2.00a12				
			STOR Miniport 2.01a4				
			STOR Miniport 2.10a7				
			STOR Miniport 2.20.006				
			STOR Miniport 2.30.020				
			STOR Miniport 2.32.002				
			STOR Miniport 2.33.008				
		QLogic	STOR Miniport 2.41.002				
			STOR Miniport 2.50.007				
			STOR Miniport 2.70.018				
			SCSI Miniport 9.1.0.11				
			STOR Miniport 9.1.0.16				
			STOR Miniport 9.1.0.18				
			STOR Miniport 9.1.2.16				
			STOR Miniport 9.1.2.19				
			STOR Miniport 9.1.3.16				
			STOR Miniport 9.1.3.18				
		HP	STOR Miniport 9.1.4.15				
			STOR Miniport 9.1.7.16				
			STOR Miniport 9.1.7.18				
			STOR Miniport 9.1.8.17				
			STOR Miniport 9.1.8.19				
			STOR Miniport 9.1.8.25				
			STOR Miniport 9.1.8.27				
			STOR Miniport 9.1.9.25				
			STOR Miniport 9.1.9.26				
			STOR Miniport 2.50.007				
		IBM	STOR Miniport 3.0.0.0				
			STOR Miniport 9.1.3.18				
			STOR Miniport 9.1.7.17				
			STOR Miniport 9.1.7.18				
			STOR Miniport 9.1.7.65				
			STOR Miniport 9.1.8.25				
			STOR Miniport 9.1.9.25				
			STOR Miniport 9.1.9.26				
			STOR Miniport 9.1.9.45				
			STOR Miniport 9.1.8.25				
		Hitachi	Bundle	1	1	1	
		Brocade	1.0.0-06				
			1.1.0.1				
			2.1.0.0				
			2.2.0.0				
			2.3.0.0				
			3.0.0.0				
			iSCSI HBA/CNA	Microsoft	Microsoft Initiator v2.05		
					Microsoft Initiator v2.07		
			Fibre Channel over Ethernet	Emulex	STOR Miniport 2.10a7		
	STOR Miniport 2.32.002						
	STOR Miniport 2.70.018						
	QLogic	STOR Miniport 2.1.4.19					
		STOR Miniport 2.1.7.18					
		STOR Miniport 9.1.8.26					
	HP	STOR Miniport 2.33.008					
		STOR Miniport 2.50.007					
	Brocade	STOR Miniport 2.2.0.0					

Supported	
Not Supported	

Notes	
1 All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.	

Windows 2008 (IA32 / x86)			HDL Version		
OS	HBA	Driver	7.4.1	7.5.0	7.6.0
Windows 2008 (IA32 / x86)	Fibre Channel	Emulex	STOR Miniport 2.00a12		
			STOR Miniport 2.01a4		
			STOR Miniport 2.10a7		
			STOR Miniport 2.20.006		
			STOR Miniport 2.03.20		
			STOR Miniport 2.32.002		
			STOR Miniport 2.33.008		
			STOR Miniport 2.41.003		
			STOR Miniport 2.50.007		
			STOR Miniport 2.74.014.001		
		QLogic	Bundle		
			STOR Miniport 9.1.7.16		
			STOR Miniport 9.1.7.18		
			STOR Miniport 9.1.8.17		
		HP	STOR Miniport 2.74.014.001		
			STOR Miniport 9.1.7.17		
			STOR Miniport 9.1.8.27		
		Hitachi	Bundle	1	1
		Brocade	1.0.0-06		
			1.1.0.1		
			2.2.0.0		
	iSCSI	Microsoft	Bundle		
	iSCSI	QLogic	2.1.5.15		
	HBA/CNA	Emulex	4.1.334.0		
	Fibre Channel over Ethernet	Emulex	STOR Miniport 2.10a7		
			STOR Miniport 2.32.002		
			STOR Miniport 2.70.018		
		QLogic	STOR Miniport 2.1.4.19		
			STOR Miniport 9.1.7.18		
			STOR Miniport 9.1.9.15		
		Brocade	STOR Miniport 2.2.0.0		

Supported	
Not Supported	

Notes	
1 All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.	

Windows 2008 (IA64 / Itanium)			HDL Version		
OS	HBA	Driver	7.4.1	7.5.0	7.6.0
Windows 2008 (IA64 / Itanium)	Fibre Channel	Emulex	STOR Miniport 2.00a12		
			STOR Miniport 2.10a7		
		QLogic	Bundle		
			STOR Miniport 9.1.8.16		
	iSCSI	Hitachi	Bundle	1	1
		Microsoft	Bundle		

Supported	
Not Supported	

Notes	
1 All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.	

Windows 2008 (x64 / x86_64)				HDL Version		
OS	HBA	Driver		7.4.1	7.5.0	7.6.0
Windows 2008 (x64 / x86_64)	Fibre Channel	Emulex	STOR Miniport 2.00a12			
			STOR Miniport 2.01a4			
			STOR Miniport 2.10a7			
			STOR Miniport 2.20.006			
			STOR Miniport 2.32.002			
			STOR Miniport 2.33.008			
			STOR Miniport 2.41.003			
			STOR Miniport 2.50.007			
			STOR Miniport 2.70.014			
			STOR Miniport 2.70.018			
			STOR Miniport 2.72.012.001			
			STOR Miniport 2.74.014.001			
		QLogic	Bundle			
			STOR Miniport 9.1.7.16			
			STOR Miniport 9.1.7.18			
			STOR Miniport 9.1.8.16			
			STOR Miniport 9.1.8.17			
			STOR Miniport 9.1.8.25			
			STOR Miniport 9.1.9.25			
			STOR Miniport 9.1.9.26			
			STOR Miniport 9.1.9.27			
			STOR Miniport 9.1.9.47			
			STOR Miniport 9.1.9.49			
			STOR Miniport 9.1.10.26			
			STOR Miniport 9.1.11.20			
		Hitachi	Bundle	1	1	1
		HP	STOR Miniport 2.70.018			
			STOR Miniport 2.74.014.001			
			STOR Miniport 9.1.7.17			
			STOR Miniport 9.1.9.26			
			STOR Miniport 9.1.9.45			
		Brocade	STOR Miniport 9.1.9.49			
			STOR Miniport 9.1.11.20			
			1.0.0-06			
		iSCSI	1.1.0.1			
			2.2.0.0			
		iSCSI	Microsoft			
			Qlogic			
		HBA/CNA	2.1.5.15			
			Emulex			
		Fibre Channel over Ethernet	4.1.334.0			
			STOR Miniport 2.10a7			
			STOR Miniport 2.32.002			
			STOR Miniport 2.50.007			
			STOR Miniport 2.70.018			
			STOR Miniport 2.1.4.19			
			STOR Miniport 9.1.7.18			
			STOR Miniport 9.1.8.26			
			STOR Miniport 9.1.9.15			
			STOR Miniport 2.42.002			
			STOR Miniport 2.50.007			
		Brocade	STOR Miniport 2.2.0.0			

Supported

Not Supported

Notes

1|All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.

Windows 2008 SP2 (IA32 / x86)				HDL Version		
OS	HBA	Driver		7.4.1	7.5.0	7.6.0
Windows 2008 SP2 (IA32 / x86)	Fibre Channel	Emulex	STOR Miniport 2.01a4			
			STOR Miniport 2.10a7			
			STOR Miniport 2.20.006			
			STOR Miniport 2.30.020			
			STOR Miniport 2.32.002			
			STOR Miniport 2.33.008			
			STOR Miniport 2.41.002			
			STOR Miniport 2.41.003			
			STOR Miniport 2.50.007			
			STOR Miniport 2.74.014.001			
		Qlogic	STOR Miniport 9.1.8.17			
			STOR Miniport 9.1.8.25			
			STOR Miniport 9.1.9.25			
			STOR Miniport 9.1.10.27			
			STOR Miniport 9.1.10.27	1	1	1
		Brocade	Bundle			
			1.0.0-06			
			1.1.0.1			
		HP	2.2.0.0			
			STOR Miniport 2.74.014.001			
			STOR Miniport 9.1.8.27			
		IBM	STOR Miniport 9.1.8.28			
			STOR Miniport 9.1.7.55			
	Fibre Channel over Ethernet	iSCSI	Microsoft			
			Emulex			
		Emulex	4.1.334.0			
			STOR Miniport 2.32.002			
		Qlogic	STOR Miniport 2.70.018			
			STOR Miniport 9.1.9.15			
		Brocade	STOR Miniport 2.2.0.0			
			STOR Miniport 2.1.0.11			

Supported

Not Supported

Notes

1|All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.

Windows 2008 SP2 (IA64 / Itanium)				HDL Version		
OS	HBA		Driver	7.4.1	7.5.0	7.6.0
Windows 2008 SP2 (IA64 / Itanium)	Fibre Channel	Emulex	STOR Miniport 2.10a7			
		Qlogic	STOR Miniport 9.1.8.16			
		Hitachi	Bundle	1	1	1
	iSCSI	Microsoft	Bundled			
Supported						
Not Supported						

Notes	
1 All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.	

Windows 2008 SP2 (x64 / x86_64)				HDL Version		
OS	HBA		Driver	7.4.1	7.5.0	7.6.0
Windows 2008 SP2 (x64 / x86_64)	Fibre Channel	Emulex	STOR Miniport 2.01a4			
			STOR Miniport 2.10a7			
			STOR Miniport 2.20.006			
			STOR Miniport 2.30.020			
			STOR Miniport 2.32.002			
			STOR Miniport 2.33.008			
			STOR Miniport 2.41.002			
			STOR Miniport 2.41.003			
			STOR Miniport 2.50.007			
			STOR Miniport 2.70.014			
			STOR Miniport 2.70.018			
			STOR Miniport 2.72.012.001			
			STOR Miniport 2.74.014.001			
		Qlogic	STOR Miniport 9.1.8.16			
			STOR Miniport 9.1.8.17			
			STOR Miniport 9.1.8.25			
			STOR Miniport 9.1.9.25			
			STOR Miniport 9.1.9.26			
			STOR Miniport 9.1.9.27			
			STOR Miniport 9.1.9.47			
			STOR Miniport 9.1.9.49			
			STOR Miniport 9.1.10.26			
			STOR Miniport 9.1.11.20			
		Hitachi	Bundle	1	1	1
		IBM	STOR Miniport 9.1.7.55			
			STOR Miniport 9.1.8.25			
		HP	STOR Miniport 2.70.018			
			STOR Miniport 2.74.014.001			
			STOR Miniport 9.1.7.17			
			STOR Miniport 9.1.8.19			
			STOR Miniport 9.1.9.25			
			STOR Miniport 9.1.9.26			
			STOR Miniport 9.1.9.49			
			STOR Miniport 9.1.11.20			
		Brocade	1.0.0-06			
			1.1.0.1			
2.2.0.0						
iSCSI	Microsoft	Bundle				
iSCSI	Emulex	4.1.334.0				
Fibre Channel over Ethernet	Emulex	STOR Miniport 2.32.002				
		STOR Miniport 2.50.007				
		STOR Miniport 2.70.018				
	Qlogic	STOR Miniport 9.1.8.26				
		STOR Miniport 9.1.9.15				
	Brocade	STOR Miniport 2.2.0.0				
		STOR Miniport 2.33.008				
	HP	STOR Miniport 2.42.002				
		STOR Miniport 2.50.007				
	Supported					
Not Supported						

Notes	
1 All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.	

Windows 2008 R2 (x64 / x86_64)				HDL Version		
OS	HBA	Driver		7.4.1	7.5.0	7.6.0
Windows 2008 R2 (x64 / x86_64)	Fibre Channel	Emulex	STOR Miniport 2.20.006			
			STOR Miniport 2.30.018			
			STOR Miniport 2.30.020			
			STOR Miniport 2.32.002			
			STOR Miniport 2.40.005			
			STOR Miniport 2.41.002			
			STOR Miniport 2.41.003			
			STOR Miniport 2.50.007			
			STOR Miniport 2.70.018			
			STOR Miniport 2.72.012.001			
			STOR Miniport 2.74.014.001			
		Qlogic	STOR Miniport 9.1.8.17			
			STOR Miniport 9.1.8.19			
			STOR Miniport 9.1.8.25			
			STOR Miniport 9.1.8.27			
			STOR Miniport 9.1.8.28			
			STOR Miniport 9.1.8.38			
			STOR Miniport 9.1.9.25			
			STOR Miniport 9.1.9.26			
			STOR Miniport 9.1.9.27			
			STOR Miniport 9.1.9.49			
			STOR Miniport 9.1.10.26			
			STOR Miniport 9.1.10.27			
			STOR Miniport 9.1.10.28			
			STOR Miniport 9.1.11.20			
		Hitachi	Bundle	1	1	1
		HP	STOR Miniport 2.33.005			
			STOR Miniport 2.33.008			
			STOR Miniport 2.50.007			
			STOR Miniport 2.70.018			
			STOR Miniport 2.70.019			
			STOR Miniport 2.74.014.001			
			STOR Miniport 9.1.8.17			
			STOR Miniport 9.1.9.26			
			STOR Miniport 9.1.8.25			
			STOR Miniport 9.1.9.45			
			STOR Miniport 9.1.9.49			
			STOR Miniport 9.1.10.27			
			STOR Miniport 9.1.11.20			
		IBM	STOR Miniport 9.1.7.55			
			STOR Miniport 9.1.8.25			
			STOR Miniport 9.1.8.26			
			STOR Miniport 9.1.9.36			
			STOR Miniport 9.1.9.36			
		Brocade	2.1.0.0			
			2.2.0.0			
			3.0.0.0			
			3.1.0.0			
			3.2.0.0			
	iSCSI	Microsoft	Bundle			
	iSCSI HBA/CNA	Emulex	4.1.334.0			
		HP	4.1.334.0			
	Fibre Channel over Ethernet	Emulex	STOR Miniport 2.32.002			
			STOR Miniport 2.41.002			
			STOR Miniport 2.42.002			
			STOR Miniport 2.50.007			
			STOR Miniport 2.70.018			
		QLogic	STOR Miniport 2.70.019			
			STOR Miniport 9.1.8.26			
			STOR Miniport 9.1.8.27			
		HP	STOR Miniport 9.1.9.15			
			STOR Miniport 2.42.002			
			STOR Miniport 2.50.007			
		IBM	STOR Miniport 2.70.019			
			STOR Miniport 2.74.009.001			
			STOR Miniport 9.1.8.26			
		Brocade	STOR Miniport 9.1.9.36			
			STOR Miniport 2.2.0.0			
			STOR Miniport 2.3.0.2			
			3.0.0.0			
		Cisco	STOR Miniport 2.1.0.11	2	2	2
		Intel	STOR Miniport 9.1.8.27			
			STOR Miniport 1.16.0.0	2	2	2

Supported	
Not Supported	

Notes	
1	All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.
2	This is not supported in cluster environments.

Windows 2008 R2 (IA64 / Itanium)				HDL Version		
OS	HBA	Driver		7.4.1	7.5.0	7.6.0
Windows 2008 R2 (IA64 / Itanium)	Fibre Channel	Emulex	STOR Miniport 2.20.006			
		HP	STOR Miniport 2.50.007			

Supported	
Not Supported	

Windows 2008 R2 SP1 (x64 / x86_64)			HDL Version		
OS	HBA	Driver	7.4.1	7.5.0	7.6.0
Windows 2008 R2 SP1 (x64 / x86_64)	Fibre Channel	Emulex	STOR Miniport 2.20.006		
			STOR Miniport 2.30.018		
			STOR Miniport 2.30.020		
			STOR Miniport 2.32.002		
			STOR Miniport 2.40.005		
			STOR Miniport 2.41.002		
			STOR Miniport 2.41.003		
			STOR Miniport 2.50.007		
			STOR Miniport 2.70.018		
			STOR Miniport 2.74.014.001		
		Qlogic	STOR Miniport 9.1.9.25		
			STOR Miniport 9.1.9.26		
			STOR Miniport 9.1.9.27		
			STOR Miniport 9.1.9.47		
			STOR Miniport 9.1.9.49		
			STOR Miniport 9.1.10.26		
			STOR Miniport 9.1.10.27		
			STOR Miniport 9.1.10.28		
			STOR Miniport 9.1.11.20		
			STOR Miniport 9.1.8.28		
		HP	STOR Miniport 2.33.005		
			STOR Miniport 2.50.007		
			STOR Miniport 2.70.018		
			STOR Miniport 2.70.019		
			STOR Miniport 2.74.014.001		
			STOR Miniport 3.0.0.0		
			STOR Miniport 9.1.9.25		
			STOR Miniport 9.1.9.45		
			STOR Miniport 9.1.9.49		
			STOR Miniport 9.1.10.27		
		Brocade	STOR Miniport 9.1.11.20		
			STOR Miniport 2.2.0.0		
			STOR Miniport 2.3.0.1		
			STOR Miniport 2.3.0.2		
			STOR Miniport 3.0.0.0		
			STOR Miniport 3.1.0.0		
	Fibre Channel over Ethernet	IBM	STOR Miniport 3.2.0.0		
			STOR Miniport 9.1.9.25		
		Emulex	4.1.334.0		
			4.1.334.0		
		Cisco	STOR Miniport 2.1.0.11		
			STOR Miniport 2.1.0.17		
			STOR Miniport 2.1.0.20		
			STOR Miniport 2.1.0.25		
			STOR Miniport 9.1.8.27		
		Emulex	STOR Miniport 2.50.007		
			STOR Miniport 2.70.018		
			STOR Miniport 2.50.007		
		HP	STOR Miniport 2.74.009.001		
			STOR Miniport 2.70.019		
		Intel	STOR Miniport 1.16.0.0	1	1

Supported		
Not Supported		
Notes		
1 This is not supported in cluster environments.		

Windows 2008 R2 SP1 (IA64 / Itanium)				HDLN Version		
OS	HBA		Driver	7.4.1	7.5.0	7.6.0
Windows 2008 R2 SP1 (IA64 / Itanium)	Fibre Channel	Emulex	STOR Miniport 2.20.006			
			STOR Miniport 2.40.005			
				Supported		
				Not Supported		

Windows 2012 (x64 / x86_64)			HDLM Version				
OS	HBA		Driver	7.4.1	7.5.0	7.6.0	
Windows 2012 (x64 / x86_64)	Fibre Channel	Emulex	STOR Miniport 2.72.205.004				
			STOR Miniport 2.72.012.001				
			STOR Miniport 2.74.009.001				
			STOR Miniport 2.74.014.001				
		QLogic	STOR Miniport 9.1.9.205				
			STOR Miniport 9.1.10.26				
			STOR Miniport 9.1.10.27				
		Hitachi	Bundle		1	1	1
		Brocade	STOR Miniport 3.0.2.21				
			STOR Miniport 3.1.0.1				
		HP	STOR Miniport 2.74.009.001				
			STOR Miniport 9.1.10.27				
	iSCSI	Microsoft	Bundle				
	Fibre Channel over Ethernet	Emulex	STOR Miniport 2.72.012.001				
			STOR Miniport 2.72.205.004				
			STOR Miniport 2.74.014.001				
		QLogic	STOR Miniport 9.1.10.15				
			STOR Miniport 2.74.014.001				
HP		STOR Miniport 2.74.014.001					
Supported							
Not Supported							
Notes							
1 All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.							

Windows 2012 R2 (x64 / x86_64)				HDLN Version		
OS	HBA		Driver	7.4.1	7.5.0	7.6.0
Windows 2012 R2 (x64 / x86_64)	Fibre Channel	Emulex	STOR Miniport 2.74.214			
		QLogic	STOR Miniport 9.1.11.3			
				Supported		
				Not Supported		

Supported GPT Versions				
OS	Architecture	HDL M Version		
		7.4.1	7.5.0	7.6.0
Windows 2003	Itanium / IA64			
	X64 / x86_64	1	1	1
Windows 2003 SP1	IA32 / x86	1	1	1
	Itanium / IA64			
Windows 2003 SP2	IA32 / x86	1	1	1
	Itanium / IA64			
Windows 2003 R2	X64 / x86_64	1	1	1
	IA32 / x86	1	1	1
Windows 2003 R2 SP2	X64 / x86_64	1	1	1
	IA32 / x86	1	1	1
Windows 2008	IA32 / x86	1	1	1
	Itanium / IA64			
Windows 2008 SP2	X64 / x86_64	1	1	1
	IA32 / x86	1	1	1
Windows 2008 R2	X64 / x86_64	1	1	1
Windows 2008 R2 SP1	Itanium / IA64	1	1	1
Windows 2012	X64 / x86_64	1	1	1
Windows 2012 R2	X64 / x86_64	1	1	1

Supported	
Not Supported	

Notes	
1	SAN boot configurations with GPT are not supported.

Sun Solaris SPARC		HDLM Version		
		7.4.1	7.5.0	7.6.0
Product Modifications and Additional Functions	Manual/Automatic Fail Over			
	Manual/Automatic Fail Back			
	Load Balance (Round Robin)			
	Load Balance (Extended Round Robin)			
	Load Balance (Least I/O)			
	Load Balance (Extended Least I/O)			
	Load Balance (Least Blocks)			
	Load Balance (Extended Least Blocks)			
	Load Balance for 3 Nodes Or More With Sun Cluster	4	4	4
	Load balance with VCS			
	Automatic Discovery			
	Error Log			
	CLI			
	GUI			
	GUI browser			
	Path Blockade/Health Check			
	Health check Time (1min to 24 hr)			
	Dynamic Reconfiguration of Disk Devices	Add LU		
		Delete LU	9, 10	9, 10
		Add Path of Existing LU		
		Delete Path of Existing LU		
		Add new HBA	17	17
		Delete HBA		
	Online(E)			
	Integration with HDvM			
	Offline For Each HBA (CLI)			
	Target Side Failover			
	HMDE Support	1	1	1
	Boot Disk	7, 8, 20	7, 8, 20	7, 8, 20
	Upgrade Install			
	Service Pack			
	Internationalization			
	Advanced Patch check			
	Support for > 1 TB Volumes (EFI Label)	6	6	6
	ZFS filesystem support	2, 3	2, 3	2, 3
	Support For Up To 256 LUs	5	5	5
	Display of HBA Information			
	Improved Online/Offline Commands			
	Periodic Display Of Performance Information			
	License key can be entered during installation			
	Support for ZFS filesystem			
	Audit Log			
	HDLM Component Install Utility			
	online/offline path by SCSI device name			
	High Availability Manager (HAM limited support)	19	19	
	Oracle Solaris Containers(Global zone)	13, 14	13, 14	13, 14
	Oracle VM Server(LDoms)	15, 16	15, 16	15, 16
	Dynamic I/O Path Control	18	18	18
	Specifying the number of times the same path can be used for I/O operations when the load balancing is used.			
Supported Storage	Storage Subsystem	Interface	Microcode version	
	Hitachi Lightning 9900V	Fibre Channel	21-02-23-XX/XX or later	
	Hitachi Universal Storage Platform V	Fibre Channel	60-01-XX-XX/XX or later	
	Hitachi Universal Storage Platform VM	Fibre Channel	60-01-61-XX/XX or later	
	Hitachi Virtual Storage Platform	Fibre Channel	70-01-00-XX/XX or later	
	Hitachi Unified Storage VM	Fibre Channel	73-01-0X-XX/XX or later	
	Hitachi Universal Storage Platform	Fibre Channel	50-01-19-XX/XX or later	
	Hitachi Network Storage Controller NSC55	Fibre Channel	50-03-94-XX/XX or later	
	Hitachi Thunder 9530V	Fibre Channel	0651/D or later	
	Hitachi Thunder 9570V	Fibre Channel	0651/D or later	
	Hitachi Thunder 9580V	Fibre Channel	1654/A or later	
	Hitachi Adaptable Modular Storage AMS 200	Fibre Channel	0712/A or later	
	Hitachi Adaptable Modular Storage AMS 500	Fibre Channel	0712/A or later	
	Hitachi Adaptable Modular Storage AMS1000	Fibre Channel	0712/A or later	
	Hitachi Adaptable Modular Storage AMS2100	Fibre Channel	0832/E or later	
	Hitachi Adaptable Modular Storage AMS2300	Fibre Channel	0832/E or later	
	Hitachi Adaptable Modular Storage AMS2500	Fibre Channel	0832/E or later	
	Hitachi Workgroup Modular Storage WMS100	Fibre Channel	0720/A or later	
	Hitachi Unified Storage 110	Fibre Channel	0915/A or later	
	Hitachi Unified Storage 130	Fibre Channel	0915/A or later	
	Hitachi Unified Storage 150	Fibre Channel	0915/A or later	
	SMS 100	Fibre Channel	1810/N or later	
	HP StorageWorks XP1024 / XP128 Disk Array	Fibre Channel	21-01-24-XX/XX or later	
	HP StorageWorks XP512 / XP48 Disk Array	Fibre Channel	01-10-00-XX/XX or later	
	HP StorageWorks XP12000 Disk Array	Fibre Channel	50-01-19-XX/XX or later	
	HP StorageWorks XP20000 Disk Array	Fibre Channel	60-01-61-XX/XX or later	
	HP StorageWorks XP24000 Disk Array	Fibre Channel	60-01-XX-XX/XX or later	

HP StorageWorks P9500 Disk Array	Fibre Channel	70-01-00-XX/XX or later			
SVS	Fibre Channel	50-07-01-XX/XX or later			

Exclusive Products	Hitachi Path Manager	11	11	11
	Sun StorEdge[TM] RAID Manager	11	11	11
	VxVM-DMP	11	11	11
	MPxIO(Sun StorEdge Traffic Manager Software)(*5)(*6)			
	PowerPath	12	12	12
	SDD	12	12	12

Supported	
Not Supported	

Notes	
1	The following OS versions are supported: - Solaris 8 (SPARC) (64bit) - Solaris 9 (SPARC) (64bit) - Solaris 10 (SPARC) (64bit)
2	ZFS cannot be used on an LU that is managed by a volume manager.
3	ZFS is supported only in Solaris 10, Solaris 11, or Solaris 11.1.
4	Load balancing is not available for LUs that are using SCSI-2 reserves in Sun Cluster 2-node configurations.
5	As prerequisites for supporting configurations with 256 or more LUNs, all of the following components; the storage system, the HBA, and the HBA driver, must support the configurations. For the information, refer to documents or data sheet provided by each vendor.
6	For supported cluster configurations, see the [20. Clusters and VMs] sheet.
7	Only configurations without Volume Manager and Clusterware are supported.
8	Boot disks are supported if your configuration meets any of the following conditions: (1) The configuration uses neither volume managers nor clusterware (2) The configuration meets both of the following conditions: - The HDLM device of the boot disk is managed by SVM, and mirroring is adopted as a RAID level (up to three-way mirroring is supported). - The HBA is qla234x and the HBA driver is a qlc driver. (3) The configuration meets all of the following conditions: - The HDLM version is 6.5.1-00 or later - The OS is Solaris 10 - The HDLM device of the boot disk is managed by ZFS (4) The configuration meets all of the following conditions: - The OS is Solaris 11. - The HDLM device of the boot disk is managed by ZFS.
9	This is supported only in Solaris 10, Solaris 11 or Solaris 11.1
10	Configurations that use Clusterware are not supported.
11	This product is mutually exclusive with HDLM.
12	HDLM and other path management software may be able to coexist if they manage respective storages. Please contact appropriate person in HDS
13	This is supported only in Solaris 10, Solaris 11 or Solaris 11.1
14	HDLM is supported only in environments installed in a Global Zone, and is not supported in environments installed in a Non-Global Zone. HDLM can manage paths only from a Global Zone. To use HDLM devices in a Non-Global Zone, allocate the HDLM devices of LUs or controllers from a Global Zone to a Non-Global Zone.
15	The following Oracle VM Server versions are supported on Solaris 10: Oracle VM Server 1.2, 1.3, 2.0, 2.1, 2.2 The following Oracle VM Servers versions are supported on Solaris 11: Oracle VM Server 2.1, 2.2 The following Oracle VM Servers versions are supported on Solaris 11.1: Oracle VM Server 3.0
16	Cluster configurations are not supported.
17	Supported on Solaris 10 and 11.
18	Microprogram version 08B8/D or later is required for using Dynamic I/O Path Control on the Hitachi AMS2000 series/Hitachi SMS series.
19	Supported with some conditions customer-by-customer basis (SUI 044226). Please contact appropriate person in HDS
20	This is not supported in Solaris 11.1.

IMPORTANT NOTE

HDLM is dependent only on the driver version, not the HBA model. For this reason, specific HBA models are no longer listed, just driver versions. So if the HBA driver version is supported, then HDLM is supported. This also means that OEM versions are supported, as long as the driver is supported.

Solaris 8 SPARC			HDLM Version		
OS	HBA	Driver	7.4.1	7.5.0	7.6.0
Solaris 8 SPARC	Fibre Channel	SUN	SAN 4.2	1, 3, 5	1, 3, 5
			SAN 4.4	1, 3, 5	1, 3, 5
			SAN 4.4.2	1, 3, 5	1, 3, 5
			SAN 4.4.4	1, 3, 5	1, 3, 5
			SAN 4.4.11	1, 3, 5, 6, 7, B	1, 3, 5, 6, 7, B
			SAN 4.4.12	1, 3, 5, 6, B	1, 3, 5, 6, B
			SAN 4.4.13	1, 3, 5, 6, 7, B	1, 3, 5, 6, 7, B
			Bundle	8	8
Solaris 8 SPARC	Fibre Channel	AMCC	2.5.8.HIT.07		
			2.5.8.HIT.07.01		
			2.5.9		
			2.5.18		
			2.6.7		
			2.6.9		
			4.1.1		
			4.1.1.b.4		
			4.1.1.1		
			4.1.3		
			5.1		
			5.1.0.HIT.M01		
			5.1.1		
			5.1.1.HIT.M02		
			5.2		
			5.3.0.11		
			5.3.0.11.HIT.M08		
Solaris 8 SPARC	Fibre Channel	Emulex	4.10g	2	2
			5.02d	2	2
			6.00g	2	2
			6.01c	2	2
			6.02f	2	2
			6.02h	2	2
			6.11c	2	2
			6.11cx2	2	2
		QLogic	3.08		
			3.16		
			4.06	4	4
			4.08	4	4
			4.13.01	4	4
			5.03	4	4
			5.04	4	4
		Fujitsu	V2.2 + Patch 910936-07		
			V2.2 + Patch 910936-08		
			V2.2 + Patch 910936-09		
			V2.2 + Patch 910936-10		
			V2.2 + Patch 910936-11		
			V2.2 + Patch 910936-12		
			V2.2 + Patch 910936-13		
			V2.2 + Patch 910936-14		
			V2.2 + Patch 910936-15		
		SUN	2.2.1		
			2.2.1+Update2		
			3.0		
			3.0 + Update1		
Solaris 8 SPARC	SCSI	SUN	Solaris Bundle		

Supported

Not Supported

Notes

HDLM is not supported on x86 for any Solaris version.

B SAN Boot is supported.

1 Sun StorEdge™ SAN Foundation Software is required. This is available at the My Oracle Support website (<https://support.oracle.com/>).

2 Edit and set the /kernel/drv/lpc.conf file as follows:

- no-device-delay=0
- nodev-holdio=0
- Set nodev-tmo to 30 or greater.
- When connecting to storage either directly via an FC HUB (loop mode only): topology=4
- When connecting to storage via an FC Switching HUB (point-to-point mode only): topology=2

3 Please refer to the below document at My Oracle Support website (<https://support.oracle.com/>)

Bug ID: 4897065

Bug ID: 6288500

4 Set the /kernel/drv/qla2200.conf file or /kernel/drv/qla2300.conf file as follows:

- hbaX-link-down-error=1
- hbaX-fast-error-reporting=1 (Specify this only for HBA driver versions that support this parameter.)

Note: "X" refers to the HBA driver instance.

5 In case of using this HBA driver, the phenomenon of the followings reported by BugID 15354368(SUNBT6479229) at the My Oracle Support website (<https://support.oracle.com/>) may occur.

- Re-instating function and FailFast probe function are uN/Available.

6 In case of using this HBA driver, the phenomenon of the followings reported by BugID 15353733 (SUNBT6477754) at the My Oracle Support website (<https://support.oracle.com/>) may occur.

- Long time to re-attach the ssd driver instance after all the troubled path recovered

7	If the server is started with a disconnected path, and then the path is connected and recovered, execute the <code>cfgadm -c configure</code> command before entering the <code>linkmgr</code> online command, to make Solaris recognize the storage. In a Solaris 10 environment, even when the <code>cfgadm -c configure</code> command is executed, the host might not always recognize the storage. If this happens, after the path is recovered, reboot the host so that it recognizes the storage.
8	This is only supported when using the following HBA models provided by Oracle: - X6729A - X6730A

Solaris 9 SPARC			HDLM Version		
OS	HBA	Driver	7.4.1	7.5.0	7.6.0
Solaris 9 SPARC	Fibre Channel	SAN 4.2	3,4,9	3,4,9	3,4,9
		SAN 4.4	3,4,9	3,4,9	3,4,9
		SAN 4.4.2	3,4,9	3,4,9	3,4,9
		SAN 4.4.4	3,4,9	3,4,9	3,4,9
		SAN 4.4.11	B	B	B
			3,4,9	3,4,9	3,4,9
			10,11,19	10,11,19	10,11,19
		SAN 4.4.12	B	B	B
			3,4,9	3,4,9	3,4,9
			10,11,19	10,11,19	10,11,19
		SAN 4.4.13	B	B	B
			3,4,9	3,4,9	3,4,9
			10,11,19	10,11,19	10,11,19
		SAN 4.4.14	B	B	B
			3,4,9	3,4,9	3,4,9
			10,11,19	10,11,19	10,11,19
		SAN 4.4.15	B	B	B
			3,4,9	3,4,9	3,4,9
			10,11,19	10,11,19	10,11,19
		2.6.12			
		4.1.3			
		5.3			
		5.3.0.11			
		5.3.0.11.HIT.M08			
		5.01e	2	2	2
		5.02d	2	2	2
		6.00g	2	2	2
		6.02f	2	2	2
		6.02h	2	2	2
		6.11c	2	2	2
		6.11cx2	2	2	2
		6.21g	2	2	2
		4.08	7	7	7
		4.13.01	7	7	7
		5.03	7	7	7
		5.04	7	7	7
		V2.2.1 +Patch912069-02			
		2.2.1			
		2.2.1+Update2			
		3.0			
		3.0 + Update 1			

Supported	
Not Supported	

Notes	
HDLM is not supported on x86 for any Solaris version.	
B SAN boot is supported.	
2	Edit and set the <code>/kernel/drv/lpfc.conf</code> file as follows: - <code>no-device-delay=0</code> - <code>nodev-holdio=0</code> - Set <code>nodev-tmo</code> to 30 or greater. - When connecting to storage either directly via an FC HUB (loop mode only): <code>topology=4</code> - When connecting to storage via an FC Switching HUB (point-to-point mode only): <code>topology=2</code>
3	Sun StorEdge™ SAN Foundation Software is required. This is available at the My Oracle Support website. .
4	Please refer to the below document at My Oracle Support website (https://support.oracle.com/) Bug ID: 4897065 Bug ID: 6288500
7	Set the <code>/kernel/drv/qla2200.conf</code> file or <code>/kernel/drv/qla2300.conf</code> file as follows: - <code>hbaX-link-down-error=1</code> - <code>hbaX-fast-error-reporting=1</code> (Specify this only for HBA driver versions that support this parameter.) Note: "X" refers to the HBA driver instance.
9	In case of using this HBA driver, the phenomenon of the followings reported by BugID 15354368(SUNBT6479229) at the My Oracle Support website (https://support.oracle.com/) may occur. - Re-instating function and FailFast probe function are uN/Available.
10	In case of using this HBA driver, the phenomenon of the followings reported by BugID 15353733 (SUNBT6477754) at the My Oracle Support website (https://support.oracle.com/) may occur. - Long time to re-attach the ssd driver instance after all the troubled path recovered
11	In case of using this HBA driver, the phenomenon of the followings reported by BugID 15354375(SUNBT6479243) at the My Oracle Support website (https://support.oracle.com/) may occur. -The kernel panic in <code>mutex_exit()</code> or <code>mutex_enter()</code>

19	If the server is started with a disconnected path, and then the path is connected and recovered, execute the <code>cfgadm -c configure</code> command before entering the <code>linkmgr</code> online command, to make Solaris recognize the storage. In a Solaris 10 environment, even when the <code>cfgadm -c configure</code> command is executed, the host might not always recognize the storage. If this happens, after the path is recovered, reboot the host so that it recognizes the storage.
----	--

Solaris 10 SPARC			HDLM Version			
			7.4.1	7.5.0	7.6.0	
OS	HBA	Driver				
Solaris 10 SPARC	Fibre Channel	SUN	Solaris 10 Bundle	B 4,5,9,20	B 4,5,9,20	B 4,5,9,20
		Emulex	6.02f	2	2	2
			6.02h	2	2	2
			6.11c	2	2	2
			6.11cx2	2	2	2
			6.21g	2	2	2
		QLogic	5.03	7	7	7
			5.04	7	7	7
		Fujitsu	3.0 + Update1			
			4.0	B, 17	B, 17	B, 17
			4.0 + Update1	B, 17	B, 17	B, 17
			4.0 + Update2	B, 17	B, 17	B, 17
		Brocade	bfa 1.1.0.4	18	18	18
			bfa 2.1.0.1	18	18	18
	Fibre Channel over Ethernet	SUN	Solaris 10 Bundle	B,4,5,9,20,2 2	B,4,5,9,20,2 2	B,4,5,9,20,2 2
		Brocade	bfa 2.3.0.6	18	18	18

Supported	
Not Supported	

Notes	
HDL is not supported on x86 for any Solaris version.	
B	SAN boot is supported.
2	Edit and set the <code>/kernel/drv/lpfc.conf</code> file as follows: - <code>no-device-delay=0</code> - <code>nodev-holdio=0</code> - Set <code>nodev-tmo</code> to 30 or greater. - When connecting to storage either directly via an FC HUB (loop mode only): <code>topology=4</code> - When connecting to storage via an FC Switching HUB (point-to-point mode only): <code>topology=2</code>
4	Please refer to the below document at My Oracle Support website (https://support.oracle.com/) Bug ID: 4897065 Bug ID: 6288500
5	Requires Solaris 10 attachment driver.
7	Set the <code>/kernel/drv/qla2200.conf</code> file or <code>/kernel/drv/qla2300.conf</code> file as follows: - <code>hbaX-link-down-error=1</code> - <code>hbaX-fast-error-reporting=1</code> (Specify this only for HBA driver versions that support this parameter.) Note: "X" refers to the HBA driver instance.
9	In case of using this HBA driver, the phenomenon of the followings reported by BugID 15354368(SUNBT6479229) at the My Oracle Support website (https://support.oracle.com/) may occur. - Re-instating function and FailFast probe function are uN/Available.
17	Edit and set the <code>/kernel/drv/lpfc.conf</code> file as follows: - <code>failover_function=1</code>
18	Apply the following patches: 119130-33 (or later) SunOS 5.10: Sun Fibre Channel Device Drivers 119974-09 (or later) SunOS 5.10: lp plug-in for <code>cfgadm</code> 120346-09 (or later) SunOS 5.10: Common Fibre Channel HBA API and Host Bus Adapter Libraries
19	If the server is started with a disconnected path, and then the path is connected and recovered, execute the <code>cfgadm -c configure</code> command before entering the <code>linkmgr</code> online command, to make Solaris recognize the storage. In a Solaris 10 environment, even when the <code>cfgadm -c configure</code> command is executed, the host might not always recognize the storage. If this happens, after the path is recovered, reboot the host so that it recognizes the storage.
20	Apply the following patches: (1) The following HBA models provided by Oracle: - X6727A, X6748A, X6757A, X6799A, SG-XPCI1FC-QF2<X6767A>, SG-XPCI2FC-QF2<X6768A>, SG-XPCI2FC-QF2-Z, SG-XPCI1FC-QL2, SG-XPCI1FC-QF4, SG-XPCI2FC-QF4, SG-XPCIE1FC-QF4, and SG-XPCIE2FC-QF4 (2) The following HBA models provided by Qlogic: - QLA2300F, QLA2310F, QLA2332, QLA2340, QLA2342, QLA2344, QLA2460, QLA2462, QLE2460, QLE2462, QLE2464, QCP2332, QCP2330, QCP2340, and QCP2342 Patches to be applied in the case of (1) or (2): 119130-22 (or later) SunOS 5.10: Sun Fibre Channel Device Drivers 119974-04 (or later) SunOS 5.10: lp plug-in for <code>cfgadm</code> 120182-02 (or later) SunOS 5.10: Sun Fibre Channel Host Bus Adapter Library 120346-04 (or later) SunOS 5.10: Common Fibre Channel HBA API Library

(3) The following HBA models provided by Oracle: - SG-XPIC11FC-EM2, SG-XPIC22FC-EM2, SG-XPIC11FC-EM4-Z, SG-XPIC22FC-EM4-Z, SG-XPIC11FC-EM4, and SG-XPIC22FC-EM4 (4) The following HBA models provided by Emulex: - LP9002, LP9802, LP10000, LP10000DC, LP11000, LP11002, LPe11000, and LPe11002 Patches to be applied in the case of (3) or (4): 119130-22 (or later) SunOS 5.10: Sun Fibre Channel Device Drivers 119974-04 (or later) SunOS 5.10: fp plug-in for cfgadm 120182-02 (or later) SunOS 5.10: Sun Fibre Channel Host Bus Adapter Library 120222-11 (or later) SunOS 5.10: Emulex-Sun LightPulse Fibre Channel Adapter driver 120346-04 (or later) SunOS 5.10: Common Fibre Channel HBA API Library
(5) The following HBA models provided by Oracle: - SG-XPIC11FC-QF8-Z, SG-XPIC22FC-QF8-Z, and SG-XPIC22FC-QB4-Z (6) The following HBA models provided by Qlogic: - QLE2560, QLE2562, and QEM2462 Patches to be applied in the case of (5) or (6): 119130-33 (or later) SunOS 5.10: Sun Fibre Channel Device Driver 119974-09 (or later) SunOS 5.10: fp plug-in for cfgadm 120346-09 (or later) SunOS 5.10: Common Fibre Channel HBA API and Host Bus Adapter Libraries 125166-10 (or later) SunOS 5.10: Qlogic ISP Fibre Channel Device Driver
(7) The following HBA models provided by Oracle: - SG-XPIC11FC-EM8-Z, SG-XPIC22FC-EM8-Z, and SG-XPIC22FC-EB4-Z (8) The following HBA models provided by Emulex: - LPe12000 and LPe12002 Patches to be applied in the case of (7) or (8): 119130-33 (or later) SunOS 5.10: Sun Fibre Channel Device Drivers 119974-09 (or later) SunOS 5.10: fp plug-in for cfgadm 120222-27 (or later) SunOS 5.10: Emulex-Sun LightPulse Fibre Channel Adapter driver 120346-09 (or later) SunOS 5.10: Common Fibre Channel HBA API and Host Bus Adapter Libraries
(9) The following HBA model provided by Oracle: - SG-XPIC22FCGBE-Q-Z Patches to be applied in the case of (9): 119130-33 (or later) SunOS 5.10: Sun Fibre Channel Device Drivers 119974-09 (or later) SunOS 5.10: fp plug-in for cfgadm 120346-09 (or later) SunOS 5.10: Common Fibre Channel HBA API and Host Bus Adapter Libraries 125166-12 (or later) SunOS 5.10: Qlogic ISP Fibre Channel Device Driver
(10) The following HBA model provided by Oracle: - SG-XPIC22FCGBE-E-Z Patches to be applied in the case of (10): 119130-33 (or later) SunOS 5.10: Sun Fibre Channel Device Drivers 119974-09 (or later) SunOS 5.10: fp plug-in for cfgadm 120222-29 (or later) SunOS 5.10: Emulex-Sun LightPulse Fibre Channel Adapter driver 120346-09 (or later) SunOS 5.10: Common Fibre Channel HBA API and Host Bus Adapter Libraries
(11) The following CNA models provided by Emulex: - LP21000, LP21002, OCe10102, and OCe11102 Patches to be applied in the case of (11): 145096-03 (or later) SunOS 5.10: oce driver patch 145098-04 (or later) SunOS 5.10: emlx driver patch
(12) The following CNA models provided by Qlogic: - QLE8140, QLE8142 The patches which should be applied in the case of (12) 143957-05 (or later) SunOS 5.10: qlc patch
22 SAN boot is not supported when using CNA provided by Emulex.

Solaris 11 SPARC				HDLN Version		
OS	HBA		Driver	7.4.1	7.5.0	7.6.0
Solaris 11 SPARC	Fibre Channel	SUN	Solaris 11 Bundle	B,1	B,1	B,1
	Fibre Channel over Ethernet	SUN	Solaris 11 Bundle	B,1,2	B,1,2	B,1,2
Solaris 11.1 SPARC	Fibre Channel	SUN	Solaris 11 Bundle	1,3	1,3	1,3
	Fibre Channel over Ethernet	SUN	Solaris 11 Bundle	1,3	1,3	1,3

Supported	
Not Supported	

Notes	
HDLM is not supported on x86 for any Solaris version.	
B	SAN boot is supported.
1	Requires Solaris 11 attachment driver.
2	SAN boot is not supported when using CNA provided by Emulex.
3	SAN boot configurations are not supported.

Red Hat & SuSE Enterprise Linux				HDLM Version		
				7.4.1	7.5.0	7.6.0
Product Modifications and Additional Functions	Manual Fail Over					
	Manual Fail Back					
	Automatic Fail Over					
	Automatic Fail Back					
	Load Balance (Round Robin)					
	Load Balance (Extended Round Robin)					
	Load Balance (Least I/O)					
	Load Balance (Extended Least I/O)					
	Load Balance (Least Blocks)					
	Load Balance (Extended Least Blocks)					
	Load Balance Under Cluster					
	Automatic Discovery					
	Error Log					
	CLI					
	Path Blockade					
	Health Check					
	Online(E)					
	Health Check Time (1 min to 24 hr)					
	Dynamic Reconfiguration					
	Offline For Each HBA (CLI)					
	Target Side Failover					
	Boot Disk	29	29	29		
	Upgrade Install					
	Service Pack					
	Persistent Reserve Clear Utility					
	Internationalization Environment					
	Support for UDEV					
	SCSI Inquiry Timeout Setup					
	Install Log Output / Collect					
	Unattended Installation and Configuration					
	Audit Log					
	Silent installation					
	GFS2 filesystem					
	System Script Update Utility (dlmupdatesysinit)					
	The function of displaying WWN of a HBA					
	Xen (virtualization)					
LUKS of RHEL5.3 or later						
KVM of RHEL5.4 or later						
online/offline path by SCSI device name						
High Availability Manager (HAM limited support)	42	42				
iSCSI with AMS 2000 Series						
Dynamic I/O Path Control	41	41	41			
Specifying the number of times the same path can be used for I/O						
md devices of RHEL5/RHEL6 or later						
Supported Storage	Storage Subsystem	Interface	Microcode version			
	Hitachi Thunder 9530V	Fibre Channel	0653/B or later			
	Hitachi Thunder 9570V	Fibre Channel	0653/B or later			
	Hitachi Thunder 9580V	Fibre Channel	1654/A or later			
	Hitachi Adaptable Modular Storage AMS200	Fibre Channel	0712/A or later			
	Hitachi Adaptable Modular Storage AMS500	Fibre Channel	0712/A or later			
	Hitachi Adaptable Modular Storage AMS1000	Fibre Channel	0712/A or later			
	Hitachi Adaptable Modular Storage AMS2100	Fibre Channel	0832/E or later			
	Hitachi Adaptable Modular Storage AMS2300	iSCSI	0846/A or later			
		Fibre Channel	0832/E or later			
	Hitachi Adaptable Modular Storage AMS2500	iSCSI	0846/A or later			
		Fibre Channel	0832/E or later			
	Hitachi Unified Storage 110	Fibre Channel	0915/A or later			
	Hitachi Unified Storage 130	Fibre Channel	0915/A or later			
	Hitachi Unified Storage 150	Fibre Channel	0915/A or later			
	Hitachi Workgroup Modular Storage WMS100	Fibre Channel	0720/A or later			
	Hitachi Lightning 9900V	Fibre Channel	21-05-00-XX/XX or later			
	Hitachi Universal Storage Platform V	Fibre Channel	60-00-05-XX/XX or later			
	Hitachi Universal Storage Platform VM	Fibre Channel	60-01-61-XX/XX or later			
	Hitachi Universal Storage Platform	Fibre Channel	50-01-19-XX/XX or later			
	Hitachi Virtual Storage Platform	Fibre Channel	70-01-00-XX/XX or later			
		Fibre Channel over Ethernet	70-02-5X-XX/XX or later			
	Hitachi Unified Storage VM	Fibre Channel	73-01-0X-XX/XX or later			
	Hitachi Network Storage Controller NSC55	Fibre Channel	50-01-19-XX/XX or later			
	SMS 100	Fibre Channel	1810/N or later			
	HP StorageWorks XP 1024 / XP128 Disk Array	Fibre Channel	21-13-02-XX/XX or later	8	8	8
	HP StorageWorks XP12000 Disk Array	Fibre Channel	50-08-05-XX/XX or later	7,8	7,8	7,8
	HP StorageWorks XP20000 Disk Array	Fibre Channel	60-01-61-XX/XX or later	8	8	8
	HP StorageWorks XP24000 Disk Array	Fibre Channel	60-01-24-XX/XX or later	8	8	8
	HP StorageWorks P9500 Disk Array	Fibre Channel	70-01-00-XX/XX or later	8	8	8
		Fibre Channel over Ethernet	70-02-5X-XX/XX or later	8	8	8
	SVS	Fibre Channel	50-07-63-XX/XX	8	8	8
	Exclusive Products	Hitachi Path Manager				
		VxVM-DMP		31	31	31
		PowerPath				
		DeviceMapper-Multipath				
			Supported			
			Not Supported			

Notes	
7	This is only supported in Red Hat Enterprise AS3/ES3 and AS4/ES4.
8	Not supported in conjunction with Hitachi Compute Blade
29	For details on Red Hat SAN boot support, see "9-1. Red Hat Linux HBA". For details on SuSE SAN boot support, see "9-2. Oracle Unbreakable HBA". For details on SuSE SAN boot support, see "10. SuSE Linux HBA".
31	HDLN and other path management software may be able to coexist if they manage respective storages. Please contact appropriate person in HDS.
41	Microprogram version 08B8/D or later is required for using Dynamic I/O Path Control on Hitachi AMS2000 series/Hitachi SMS series.
42	Supported with some conditions customer-by-customer basis (SUI 044226). Please contact appropriate person in HDS.

IMPORTANT NOTE

Security fix kernels can be supported without ISRs if their base kernels are supported and all of conditions below are met.

(1) The security fix kernels are for RHEL4.5/ SLES10 or later.

(2) Bundled driver versions of the security fix kernels are the same as the bundled driver versions of the supported base kernels.

If your requested security fix kernel is for RHEL4.4/SLES9 or before, or has a different bundled driver version from one of the base kernel, please contact appropriate person in HDS for an Interoperability Support Request (ISR).

HDL is dependent only on the driver version, not the HBA model. For this reason, specific HBA models are no longer listed, just driver versions. So if the HBA driver version is supported, then HDL is supported. This also means that OEM versions are supported, as long as the driver is supported.

All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.

Red Hat Enterprise Linux				HDL Version		
OS	HBA		Driver	7.4.1	7.5.0	7.6.0
Red Hat Enterprise Linux AS/ES 3 (Update3) IA32 / x86 Processors Kernel 2.4.21-20.EL 2.4.21-20.ELsmp 2.4.21-20.ELhugemem	Fibre Channel	QLogic	6.06.10			
			7.00.03			
			7.00.03 RH1			
			7.01.01			
			7.03.00			
		Emulex	7.05.00			
			2.01g			
			7.0.3			
			7.3.2			
			7.0.3			
Red Hat Enterprise Linux AS/ES 3 (Update3) EM64T Processors Kernel 2.4.21-20.EL	Fibre Channel	QLogic	6.06.10			
			7.00.03			
			7.00.03 RH1			
		Emulex	7.2.4			
			7.3.2			
Red Hat Enterprise Linux AS/ES 3 (Update3) Itanium / IA64 Processors Kernel 2.4.21-20.EL	Fibre Channel	QLogic	6.06.10			
			7.00.03			
			7.00.03 RH1			
		Emulex	7.03.00			
			2.01g			
			7.0.3			
Red Hat Enterprise Linux AS/ES 3 (Update5+SecurityFix) IA32 / x86 Processors Kernel 2.4.21-32.0.1.EL 2.4.21-32.0.1.ELsmp 2.4.21-32.0.1.ELhugemem	Fibre Channel	QLogic	7.01.01-RH1			
			7.03.00			
		Emulex	7.1.14			
			7.3.2			
			7.3.2			
Red Hat Enterprise Linux AS/ES 3 (Update5+SecurityFix) EM64T Processors Kernel 2.4.21-32.0.1.EL	Fibre Channel	QLogic	7.01.01-RH1			
			7.03.00			
		Emulex	7.1.14			
			7.3.2			
Red Hat Enterprise Linux AS/ES 3 (Update5+SecurityFix) AMD64 Processors Kernel 2.4.21-32.0.1.EL	Fibre Channel	QLogic	7.01.01-RH1			
			7.03.00			
		Emulex	7.1.14			
			7.3.2			
Red Hat Enterprise Linux AS/ES 3 (Update5+SecurityFix) Itanium / IA64 Processors Kernel 2.4.21-32.0.1.EL	Fibre Channel	QLogic	7.01.01-RH1			
			7.03.00			
		Emulex	7.1.14			
			7.3.2			
			7.3.2			
Red Hat Enterprise Linux AS/ES 3 (Update8) IA32 / x86 Processors Kernel 2.4.21-47.EL 2.4.21-47.ELsmp 2.4.21-47.ELhugemem	Fibre Channel	QLogic	7.07.04b6			
			7.07.05			
			7.01.01			
		Emulex	7.3.6			
			1.0.7.300			
Red Hat Enterprise Linux AS/ES 3 (Update8) EM64T Processors Kernel 2.4.21-47.EL 2.4.21-47.ELsmp	Fibre Channel	QLogic	7.07.04b6			
			7.07.05			
			7.01.01			
		Emulex	7.3.6			
Red Hat Enterprise Linux AS/ES 3 (Update8) AMD64 Processors Kernel 2.4.21-47.EL 2.4.21-47.ELsmp	Fibre Channel	QLogic	7.07.04b6			
			7.07.05			
			7.01.01			
		Emulex	7.3.6			
			4.0.7.300			
Red Hat Enterprise Linux AS/ES 3 (Update8) Itanium / IA64 Processors Kernel 2.4.21-47.EL 2.4.21-47.ELsmp	Fibre Channel	QLogic	7.07.04b6			
			7.07.05			
			7.01.01			
		Emulex	7.3.6			
	Fibre Channel	Hitachi	2.0.7.300			

Red Hat Enterprise Linux AS/ES 3 (Update9) IA32 / x86 Processors Kernel 2.4.21-50.EL 2.4.21-50.ELsmp 2.4.21-50.hugemem	Fibre Channel	QLogic	7.07.04b6			
		Emulex	7.3.6			
Red Hat Enterprise Linux AS/ES 3 (Update9) Itanium / IA64 Processors Kernel 2.4.21-50.EL	Fibre Channel	QLogic	7.07.04b6			
		Emulex	7.3.6			
Red Hat Enterprise Linux AS/ES 3 (Update9) AMD64 / EM64T Processors Kernel 2.4.21-50.EL 2.4.21-50.ELsmp	Fibre Channel	QLogic	7.07.04b6			
		Emulex	7.3.6			
Red Hat Enterprise Linux AS/ES 4 (Update1) IA32 / x86 Processors Kernel 2.6.9-11.EL 2.6.9-11.ELsmp 2.6.9-11.ELhugemem	Fibre Channel	QLogic	8.00.00b21-k	B	B	B
			8.00.02	60	60	60
			8.01.01	60	60	60
		Hitachi	Bundle	B, 45, 69	B, 45, 69	B, 45, 69
Red Hat Enterprise Linux AS 4 (Update1) Itanium / IA64 Processors Kernel 2.6.9-11.EL	Fibre Channel	QLogic	8.00.00b21-k			
			8.00.02	60	60	60
			8.01.01	60	60	60
		Hitachi	Bundle	B, 69	B, 69	B, 69
Red Hat Enterprise Linux AS/ES 4 (Update1) X64 / x86_64 Processors Kernel 2.6.9-11.ELsmp	Fibre Channel	QLogic	8.00.00b21-k	B	B	B
			8.00.02	60	60	60
			8.01.01	60	60	60
		Hitachi	Bundle	B, 45, 69	B, 45, 69	B, 45, 69
Red Hat Enterprise Linux AS/ES 4 (Update3) IA32 / x86 Processors Kernel 2.6.9-34.EL 2.6.9-34.ELsmp 2.6.9-34.ELhugemem	Fibre Channel	QLogic	8.01.02-d4	B	B	B
		Emulex	8.0.16.27			
			8.0.16.32			
			8.01.03p5			
		HP	8.0.16.27			
			8.0.16.32			
		IBM	8.01.06	45	45	45
		Hitachi	Bundle	45, 69	45, 69	45, 69
	Fibre Channel over Ethernet	Emulex	8.0.16.44			
Red Hat Enterprise Linux AS/ES 4 (Update3) Itanium / IA64 Processors Kernel 2.6.9-34.EL	Fibre Channel	QLogic	8.01.02-d4			
			8.01.06	60	60	60
		Emulex	8.0.16.27			
			8.0.16.32			
		HP	8.0.16.27			
		IBM	8.01.06			
	Fibre Channel over Ethernet	Hitachi	Bundle			
		Emulex	8.0.16.44			
Red Hat Enterprise Linux AS/ES 4 (Update3) X64 / x86_64 Processors Kernel 2.6.9-34.EL 2.6.9-34.ELsmp 2.6.9-34.ELlargesmp	Fibre Channel	QLogic	8.01.02-d4	B	B	B
			8.01.06	60	60	60
		Emulex	8.0.16.27			
			8.0.16.32			
			8.0.16.32			
		HP	8.0.16.27			
		IBM	8.01.06			
		Hitachi	Bundle	45, 69	45, 69	45, 69
	Fibre Channel over Ethernet	Emulex	8.0.16.44			

Red Hat Enterprise Linux AS/ES 4 (Update3 + Security Fix) IA32 / x86 Processors Kernel 2.6.9-34.0.2.EL 2.6.9-34.0.2.ELsmp 2.6.9-34.0.2.ELhugemem	Fibre Channel	QLogic	8.01.02-d4	B	B	B
		Emulex	8.0.16.27			
			8.0.16.32			
	Fibre Channel over Ethernet	Emulex	8.0.16.44			
Red Hat Enterprise Linux AS/ES 4 (Update3 + Security Fix) X64 / x86_64 Processors Kernel 2.6.9-34.0.2.EL 2.6.9-34.0.2.ELsmp 2.6.9-34.0.2.ELlargesmp	Fibre Channel	QLogic	8.01.02-d4	B	B	B
		Emulex	8.0.16.27			
			8.0.16.32			
	Fibre Channel over Ethernet	Emulex	8.0.16.44			
Red Hat Enterprise Linux AS/ES 4 (Update4) IA32 / x86 Processors Kernel 2.6.9-42.EL 2.6.9-42.ELsmp 2.6.9-42.ELhugemem	Fibre Channel	QLogic	8.01.04-d7	B	B	B
			8.01.06			
			8.01.07.15			
		Emulex	8.0.16.27			
			8.0.16.32			
		HP	8.0.16.27			
			8.0.16.32			
			8.01.07.25			
		IBM	8.01.06			
			8.01.07.15			
	Fibre Channel over Ethernet	Emulex	8.0.16.44			
Red Hat Enterprise Linux AS/ES 4 (Update4) Itanium / IA64 Processors Kernel 2.6.9-42.EL	Fibre Channel	QLogic	8.01.04-d7			
			8.01.06			
			8.01.07.15			
		Emulex	8.0.16.27			
			8.0.16.32			
		HP	8.0.16.27			
			8.0.16.32			
		IBM	8.01.06			
			8.01.07.15			
		Hitachi	Bundle	B, 69	B, 69	B, 69
	Fibre Channel over Ethernet	Emulex	8.0.16.44			
Red Hat Enterprise Linux AS/ES 4 (Update4) X64 / x86_64 Processors Kernel 2.6.9-42.EL 2.6.9-42.ELsmp 2.6.9-42.ELlargesmp	Fibre Channel	QLogic	8.01.04-d7	B	B	B
			8.01.06			
			8.01.07.15			
		Emulex	8.0.16.27			
			8.0.16.32			
		HP	8.0.16.32			
			8.0.16.27			
			8.01.07.25			
		IBM	8.01.06			
			8.01.07.15			
	Fibre Channel over Ethernet	Emulex	8.0.16.44			

Red Hat Enterprise Linux AS/ES 4 (Update4+Security Fix) IA32 / x86 Processors Kernel 2.6.9-42.0.3.EL 2.6.9-42.0.3.ELsmp 2.6.9-42.0.3.ELhugemem	Fibre Channel	QLogic	8.01.04-d7	B	B	B
			8.01.04-d8	B	B	B
			8.01.07.15			
		Emulex	8.0.16.27			
			8.0.16.32			
		HP	8.0.16.32			
			8.0.16.27			
			8.01.07.25			
		IBM	8.01.07.15			
	Fibre Channel over Ethernet	Emulex	8.0.16.44			
Red Hat Enterprise Linux AS/ES 4 (Update4+Security Fix) Itanium / IA64 Processors Kernel 2.6.9-42.0.3.EL	Fibre Channel	QLogic	8.01.04-d7	B	B	B
			8.01.07.15			
		Emulex	8.0.16.27			
			8.0.16.32			
		HP	8.0.16.32			
			8.0.16.27			
		Hitachi	Bundle	B, 69	B, 69	B, 69
		IBM	8.01.07.15			
	Fibre Channel over Ethernet	Emulex	8.0.16.44			
Red Hat Enterprise Linux AS/ES 4 (Update4+Security Fix) X64 / x86_64 Processors Kernel 2.6.9-42.0.3.EL 2.6.9-42.0.3.ELsmp 2.6.9-42.0.3.ELlargesmp	Fibre Channel	QLogic	8.01.04-d7	B	B	B
			8.01.07.15			
		Emulex	8.0.16.27			
			8.0.16.32			
		HP	8.0.16.32			
			8.0.16.27			
			8.01.07.25			
		IBM	8.01.07.15			
	Fibre Channel over Ethernet	Emulex	8.0.16.44			

Red Hat Enterprise Linux AS/ES 4.5 IA32 / x86 Processors Kernel 2.6.9-55.EL 2.6.9-55.ELsmp 2.6.9-55.ELhugemem	Fibre Channel	QLogic	8.01.04-d8	B	B	B
			8.02.08	60	60	60
			8.02.14	60	60	60
			8.02.23	60	60	60
			8.01.07.15	60, 61	60, 61	60, 61
		Emulex	8.0.16.27	B	B	B
			8.0.16.32			
			8.0.16.40			
			8.0.16.40	61	61	61
		HP	8.0.16.32			
			8.02.11			
			8.01.07.25			
			8.0.16.27	B	B	B
			8.01.06.01			
		IBM	8.01.07.15			
		Hitachi	Bundle	B, 45, 69	B, 45, 69	B, 45, 69
	Fibre Channel over Ethernet	Emulex	8.0.16.44			
Red Hat Enterprise Linux AS/ES 4.5 Itanium / IA64 Processors Kernel 2.6.9-55.EL 2.6.9-55.ELlargesmp	Fibre Channel	QLogic	8.01.04-d8	B	B	B
			8.02.08	60	60	60
			8.02.14	60	60	60
			8.02.23	60	60	60
			8.01.07.15	60, 61	60, 61	60, 61
		Emulex	8.0.16.27	B	B	B
			8.0.16.40			
			8.0.16.40	61	61	61
		HP	8.0.16.32			
			8.0.16.27			
			8.01.06.01			
		IBM	8.01.07.15			
		Hitachi	Bundle	B, 45, 69	B, 45, 69	B, 45, 69
	Fibre Channel over Ethernet	Emulex	8.0.16.44			

Red Hat Enterprise Linux AS/ES 4.5 X64 / x86_64 Processors Kernel 2.6.9-55.EL 2.6.9-55.ELsmp 2.6.9-55.ELlargesmp	Fibre Channel	QLogic	8.01.04-d8	B	B	B
			8.02.08	60	60	60
			8.02.14	60	60	60
			8.02.23	60	60	60
			8.01.07.15	60, 61	60, 61	60, 61
		Emulex	8.0.16.27	B	B	B
			8.0.16.32			
			8.0.16.40			
			8.0.16.40	61	61	61
		HP	8.0.16.32			
			8.02.11			
			8.01.07.25			
			8.0.16.27			
			8.01.06.01			
		IBM	8.01.07.15			
		Hitachi	Bundle	B, 45, 69	B, 45, 69	B, 45, 69
	Fibre Channel over Ethernet	Emulex	8.0.16.44			
Red Hat Enterprise Linux AS/ES 4.6 IA32 / x86 Processors Kernel 2.6.9-67.EL 2.6.9-67.ELsmp 2.6.9-67.ELhugemem	Fibre Channel	QLogic	8.01.07-d4	B	B	B
			8.02.08	60	60	60
			8.02.14	60	60	60
			8.02.23	60	60	60
			8.01.07.15	60, 61	60, 61	60, 61
		Emulex	8.0.16.34	B	B	B
			8.0.16.40	61	61	61
		HP	8.0.16.27			
			8.02.11			
			8.01.07.25			
			8.02.23-2			
		IBM	8.01.07.15	61	61	61
		Brocade	1.1.0.1			
	Fibre Channel over Ethernet	Emulex	8.0.16.44			

Red Hat Enterprise Linux AS/ES 4.6 IA64 / Itanium Processors Kernel 2.6.9-67.EL 2.6.9-67.ELlargesmp	Fibre Channel	QLogic	8.01.07-d4	B	B	B
			8.02.08	60	60	60
			8.02.14	60	60	60
			8.02.23	60	60	60
			8.01.07.15	60, 61	60, 61	60, 61
		Emulex	8.0.16.34	B	B	B
			8.0.16.40	61	61	61
		HP	8.0.16.27			
		IBM	8.01.07.15	61	61	61
	Fibre Channel over Ethernet	Emulex	8.0.16.44			
Red Hat Enterprise Linux AS/ES 4.6 X64 / x86_64 Processors Kernel 2.6.9-67.EL 2.6.9-67.ELsmp 2.6.9-67.ELlargesmp	Fibre Channel	QLogic	8.01.07-d4	B	B	B
			8.02.08	60	60	60
			8.02.14	60	60	60
			8.02.23	60	60	60
			8.01.07.15	60, 61	60, 61	60, 61
		Emulex	8.0.16.34	B	B	B
			8.0.16.40	61	61	61
		HP	8.0.16.27			
			8.02.11			
			8.01.07.25			
			8.02.23-2			
		IBM	8.01.07.15	61	61	61
		Brocade	1.1.0.1			
	Fibre Channel over Ethernet	Emulex	8.0.16.44			
Red Hat Enterprise Linux AS/ES 4.7 IA32 / x86 Processors Kernel 2.6.9-78.EL 2.6.9-78.ELsmp 2.6.9-78.ELhugemem	Fibre Channel	QLogic	8.02.09-d0	B	B	B
			8.02.08	60	60	60
			8.02.23	60	60	60
		Emulex	8.0.16.40	B	B	B
			8.0.16.47			
		HP	8.02.11			
			8.01.07.25			
		IBM	8.02.12			
			8.01.07.15	62	62	62
		Hitachi	Bundle	B, 45, 69	B, 45, 69	B, 45, 69
		Brocade	1.1.0.1			
	Fibre Channel over Ethernet	Emulex	8.0.16.44			

Red Hat Enterprise Linux AS/ES 4.7 IA64 / Itanium Processors Kernel 2.6.9-78.EL 2.6.9-78.ELlargesmp	Fibre Channel	QLogic	8.02.09-d0	B	B	B
			8.02.08	60	60	60
			8.02.23	60	60	60
		Emulex	8.0.16.40	B	B	B
			8.0.16.47			
		IBM	8.02.12			
			8.01.07.15	62	62	62
		Hitachi	Bundle	B, 45, 69	B, 45, 69	B, 45, 69
	Fibre Channel over Ethernet	Emulex	8.0.16.44			
Red Hat Enterprise Linux AS/ES 4.7 X64 / x86_64 Processors Kernel 2.6.9-78.EL 2.6.9-78.ELsmp 2.6.9-78.ELlargesmp	Fibre Channel	QLogic	8.02.09-d0	B	B	B
			8.02.08	60	60	60
			8.02.23	60	60	60
		Emulex	8.0.16.40	B	B	B
			8.0.16.47			
		HP	8.02.11			
			8.01.07.25			
		Hitachi	Bundle	B, 45, 69	B, 45, 69	B, 45, 69
		IBM	8.02.12			
			8.01.07.15	62	62	62
		Brocade	1.1.0.1			
	Fibre Channel over Ethernet	Emulex	8.0.16.44			
Red Hat Enterprise Linux AS/ES 4.8 IA32 / x86 Processors Kernel 2.6.9-89.EL or 2.6.9-89.ELsmp or 2.6.9-89.ELhugemem	Fibre Channel	QLogic	8.02.09.02.04.08-d	B	B	B
			8.02.09.01.04.09-d	B, 70	B, 70	B, 70
			8.02.23	60	60	60
		Emulex	8.0.16.46	B	B	B
			8.0.16.47	B, 63	B, 63	B, 63
			8.0.16.40			
Red Hat Enterprise Linux AS/ES 4.8 IA64 / Itanium Processors Kernel 2.6.9-89.EL or 2.6.9-89.ELlargesmp	Fibre Channel	QLogic	8.02.09.02.04.08-d	B	B	B
			8.02.09.01.04.09-d	B, 70	B, 70	B, 70
			8.02.23	60	60	60
		Emulex	8.0.16.46	B	B	B
			8.0.16.47	B, 63	B, 63	B, 63
			8.0.16.40			

Red Hat Enterprise Linux AS/ES 4.8 X64 / x86_64 Processors Kernel 2.6.9-89.EL or 2.6.9-89.ELsmp or 2.6.9-89.ELlargesmp	Fibre Channel	QLogic	8.02.09.02.04.08-d	B	B	B
			8.02.09.01.04.09-d	B, 70	B, 70	B, 70
			8.02.23	60	60	60
		Emulex	8.0.16.46	B	B	B
			8.0.16.47	B, 63	B, 63	B, 63
			8.0.16.40			
Red Hat Enterprise Linux AS/ES 4.9 IA32 / x86 Processors Kernel 2.6.9-100.EL or 2.6.9-100.ELsmp or 2.6.9-100.ELhugemem	Fibre Channel	QLogic	8.02.10.01.04.09-d	B	B	B
		Emulex	8.0.16.47	B	B	B
			8.0.16.40			
Red Hat Enterprise Linux AS/ES 4.9 XIA64 / Itanium Processors Kernel 2.6.9-100.EL or 2.6.9-100.ELlargesmp	Fibre Channel	QLogic	8.02.10.01.04.09-d	B	B	B
		Emulex	8.0.16.47	B	B	B
			8.0.16.40			
Red Hat Enterprise Linux AS/ES 4.9 X64 / x86_64 Processors Kernel 2.6.9-100.EL or 2.6.9-100.ELsmp or 2.6.9-100.ELlargesmp	Fibre Channel	QLogic	8.02.10.01.04.09-d	B	B	B
		Emulex	8.0.16.47	B	B	B
			8.0.16.40			
Red Hat Enterprise Linux 5 IA32 / x86 Processors Kernel 2.6.18-8.el5 2.6.18-8.el5PAE	Fibre Channel	QLogic	8.01.07-k1	B, 31	B, 31	B, 31
			8.02.08	31, 60	31, 60	31, 60
		Emulex	8.1.10.3	B, 31	B, 31	B, 31
			8.1.10.12	31	31	31
			8.2.0.22	31	31	31
			8.2.0.29	31	31	31
			8.2.0.33.3p	31	31	31
			8.2.0.22	31	31	31
		HP	8.1.10.11	31	31	31
			8.2.0.33.3p	31	31	31
		IBM	8.02.12	31, 60	31, 60	31, 60
	Fibre Channel over Ethernet	Emulex	8.2.0.29	31	31	31
Red Hat Enterprise Linux 5 Itanium / IA64 Processors Kernel 2.6.18-8.el5	Fibre Channel	QLogic	8.01.07-k1	31	31	31
			8.02.08	31, 60	31, 60	31, 60
		Emulex	8.1.10.3	B, 31	B, 31	B, 31
			8.1.10.12	31	31	31
			8.2.0.22	31	31	31
			8.2.0.29	31	31	31
			8.2.0.33.3p	31	31	31
		IBM	8.02.12	31, 60	31, 60	31, 60
		HP	8.2.0.33.3p	31	31	31
	Fibre Channel over Ethernet	Emulex	8.2.0.29	31	31	31

Red Hat Enterprise Linux 5 X64 / x86_64 Processors Kernel 2.6.18-8.el5	Fibre Channel	QLogic	8.01.07-k1	B, 31	B, 31	B, 31
			8.02.08	31, 60	31, 60	31, 60
		Emulex	8.1.10.3	B, 31	B, 31	B, 31
			8.1.10.12	31	31	31
			8.2.0.22	31	31	31
			8.2.0.29	31	31	31
			8.2.0.33.3p	31	31	31
		HP	8.1.10.11	31	31	31
			8.2.0.33.3p	31	31	31
		IBM	8.02.12	31, 60	31, 60	31, 60
Red Hat Enterprise Linux 5.1 IA32 / x86 Processors Kernel 2.6.18-53.el5 2.6.18-53.el5PAE	Fibre Channel over Ethernet	Emulex	8.2.0.29	31	31	31
	Fibre Channel	QLogic	8.01.07-k7	B, 31	B, 31	B, 31
			8.02.14	31, 60	31, 60	31, 60
		Emulex	8.1.10.9	B, 31	B, 31	B, 31
			8.1.10.12	31, 62	31, 62	31, 62
			8.2.0.22	31	31	31
			8.2.0.29	31	31	31
			8.2.0.33.3p	31	31	31
		HP	8.02.11	31	31	31
			8.01.07.25	31	31	31
			8.01.07.25	31	31	31
			8.2.0.33.3p	31	31	31
			8.01.07.25-2			
		Hitachi	Bundle	B, 6, 31, 69	B, 6, 31, 69	B, 6, 31, 69
		IBM	8.1.10.9	31	31	31
			8.02.12	31, 60	31, 60	31, 60
			8.02.14	31, 60	31, 60	31, 60
		Brocade	1.0.0.3	31	31	31
			1.1.0.1	31	31	31
			1.1.0.6	B, 31	B, 31	B, 31
			2.1.0.0	B, 31	B, 31	B, 31
	Fibre Channel over Ethernet	Emulex	8.2.0.29	31	31	31
		Brocade	2.1.0.0	B, 31	B, 31	B, 31

Red Hat Enterprise Linux 5.1 Itanium / IA64 Processors Kernel 2.6.18-53.el5	Fibre Channel	QLogic	8.01.07-k7	31	31	31
			8.02.14	31, 60	31, 60	31, 60
		Emulex	8.1.10.9	B, 31	B, 31	B, 31
			8.1.10.12	31, 62	31, 62	31, 62
			8.2.0.22	31	31	31
			8.2.0.29	31	31	31
			8.2.0.33.3p	31	31	31
		Hitachi	Bundle	B, 6, 31, 69	B, 6, 31, 69	B, 6, 31, 69
		IBM	8.1.10.9	31	31	31
			8.02.12	31, 60	31, 60	31, 60
			8.02.14	31, 60	31, 60	31, 60
		Brocade	1.1.0.1	31	31	31
			1.1.0.6	31	31	31
			2.1.0.0	31	31	31
		HP	8.2.0.33.3p	31	31	31
	Fibre Channel over Ethernet	Emulex	8.2.0.29	31	31	31
		Brocade	2.1.0.0	31	31	31
Red Hat Enterprise Linux 5.1 X64 / x86_64 Processors Kernel 2.6.18-53.el5	Fibre Channel	QLogic	8.01.07-k7	B, 31	B, 31	B, 31
			8.02.14	31, 60	31, 60	31, 60
		Emulex	8.1.10.12	31, 62	31, 62	31, 62
			8.2.0.22	31	31	31
			8.2.0.29	31	31	31
			8.2.0.33.3p	31	31	31
			8.1.10.9	B, 31	B, 31	B, 31
		Hitachi	Bundle	B, 6, 31, 69	B, 6, 31, 69	B, 6, 31, 69
		HP	8.02.11	31	31	31
			8.01.07.25	31	31	31
			8.01.07.25	31	31	31
			8.2.0.33.3p	31	31	31
			8.01.07.25-2			
		IBM	8.1.10.9	31	31	31
			8.02.12	31, 60	31, 60	31, 60
			8.02.14	31, 60	31, 60	31, 60
		Brocade	1.0.0.3	31	31	31
			1.1.0.1	31	31	31
			1.1.0.6	B, 31	B, 31	B, 31
			2.1.0.0	B, 31	B, 31	B, 31
	Fibre Channel over Ethernet	Emulex	8.2.0.29	31	31	31
		Brocade	2.1.0.0	B, 31	B, 31	B, 31

Red Hat Enterprise Linux 5.2 IA32 / x86 Processors Kernel 2.6.18-92.el5 2.6.18-92.el5PAE	Fibre Channel	QLogic	8.02.00-k5	B, 31	B, 31	B, 31
			8.02.14	31, 60	31, 60	31, 60
			8.02.23	31, 60	31, 60	31, 60
		Emulex	8.2.0.22	B, 31	B, 31	B, 31
			8.2.0.29	31	31	31
			8.2.0.33.3p	31	31	31
		HP	8.02.11	31	31	31
			8.01.07.25	31	31	31
			8.01.07.25	31	31	31
			8.2.0.22_p1	31	31	31
			8.2.0.33.3p	31	31	31
		IBM	8.02.12	31, 60	31, 60	31, 60
			8.02.14	31, 60	31, 60	31, 60
		Hitachi	Bundle	B, 6, 31, 69	B, 6, 31, 69	B, 6, 31, 69
		Brocade	1.0.0.3	31	31	31
			1.1.0.1	31	31	31
			1.1.0.6	B, 31	B, 31	B, 31
			2.1.0.0	B, 31	B, 31	B, 31
			2.1.0.2	31	31	31
	Fibre Channel over Ethernet	Emulex	8.2.0.29	31	31	31
		Brocade	2.1.0.0	B, 31	B, 31	B, 31
Red Hat Enterprise Linux 5.2 Itanium / IA64 Processors Kernel 2.6.18-92.el5	Fibre Channel	QLogic	8.02.00-k5	31	31	31
			8.02.14	31, 60	31, 60	31, 60
			8.02.23	31, 60	31, 60	31, 60
		Emulex	8.2.0.22	B, 31	B, 31	B, 31
			8.2.0.29	31	31	31
			8.2.0.33.3p	31	31	31
		IBM	8.02.12	31, 60	31, 60	31, 60
			8.02.14	31, 60	31, 60	31, 60
		Hitachi	Bundle	B, 6, 31, 69	B, 6, 31, 69	B, 6, 31, 69
		Brocade	1.1.0.1	31	31	31
		HP	8.2.0.33.3p	31	31	31
			1.1.0.1	31	31	31
			1.1.0.6	31	31	31
			2.1.0.0	31	31	31
			2.1.0.2	31	31	31
	Fibre Channel over Ethernet	Emulex	8.2.0.29	31	31	31
		Brocade	2.1.0.0	31	31	31

Red Hat Enterprise Linux 5.2 X64 / x86_64 Processors Kernel 2.6.18-92.el5	Fibre Channel	QLogic	8.02.00-k5	B, 31	B, 31	B, 31
			8.02.14	31, 60	31, 60	31, 60
			8.02.23	31, 60	31, 60	31, 60
		Emulex	8.2.0.22	B, 31	B, 31	B, 31
			8.2.0.29	31	31	31
			8.2.0.33.3p	31	31	31
		HP	8.02.11	31	31	31
			8.01.07.25	31	31	31
			8.01.07.25	31	31	31
			8.2.0.22_p1	31, 67, 68	31, 67, 68	31, 67, 68
			8.2.0.33.3p	31	31	31
		IBM	8.02.12	31, 60	31, 60	31, 60
			8.02.14	31, 60	31, 60	31, 60
		Brocade	1.0.0.3	31	31	31
			1.1.0.1	31	31	31
			1.1.0.6	B, 31	B, 31	B, 31
			2.1.0.0	B, 31	B, 31	B, 31
			2.1.0.2	31	31	31
		Hitachi	Bundle	B, 6, 31, 69	B, 6, 31, 69	B, 6, 31, 69
	Fibre Channel over Ethernet	Emulex	8.2.0.29	31	31	31
		Brocade	2.1.0.0	B, 31	B, 31	B, 31
Red Hat Enterprise Linux 5.3 IA32 / x86 Processors Kernel 2.6.18-128.el5 2.6.18-128.el5PAE	Fibre Channel	QLogic	8.02.00.06.05.03-k	B, 32	B, 32	B, 32
			8.02.23	32, 60	32, 60	32, 60
			8.02.00.51	32	32	32
			8.03.01.06	B, 32	B, 32	B, 32
		Emulex	8.2.0.33.3p	B, 32	B, 32	B, 32
		Hitachi	Bundle	B, 6, 32, 69	B, 6, 32, 69	B, 6, 32, 69
		Brocade	1.1.0.6	B, 32	B, 32	B, 32
			2.1.0.0	B, 32	B, 32	B, 32
			2.1.0.2	32	32	32
			2.2.0.0	32	32	32
			2.3.0.0	32	32	32
			3.0.0.0	32	32	32
		HP	8.2.0.33.3p	32	32	32
		IBM	8.02.00.51	32	32	32
			8.03.01.06	B, 32	B, 32	B, 32
	Fibre Channel over Ethernet	Qlogic	8.03.00.09	32	32	32
		Brocade	2.1.0.0	B, 32	B, 32	B, 32
			2.2.0.0	32	32	32
			2.3.0.0	32	32	32

Red Hat Enterprise Linux 5.3 Itanium / IA64 Processors Kernel 2.6.18-128.el5	Fibre Channel	QLogic	8.02.00.06.05.03-k	32	32	32
			8.02.23	32, 60	32, 60	32, 60
		Emulex	8.2.0.33.3p	B, 32	B, 32	B, 32
		Brocade	1.1.0.6	32	32	32
			2.1.0.0	32	32	32
			2.1.0.2	32	32	32
			2.2.0.0	32	32	32
			2.3.0.0	32	32	32
			3.0.0.0	32	32	32
		HP	8.2.0.33.3p	32	32	32
	Fibre Channel over Ethernet	QLogic	8.03.00.09	32	32	32
		Brocade	2.1.0.0	32	32	32
			2.2.0.0	32	32	32
			2.3.0.0	32	32	32
Red Hat Enterprise Linux 5.3 X64 / x86_64 Processors Kernel 2.6.18-128.el5	Fibre Channel	QLogic	8.02.00.06.05.03-k	B, 32	B, 32	B, 32
			8.02.23	32, 60	32, 60	32, 60
			8.02.00.51	32	32	32
			8.03.01.06	B, 32	B, 32	B, 32
		Emulex	8.2.0.33.3p	B, 32	B, 32	B, 32
		Brocade	1.1.0.6	B, 32	B, 32	B, 32
			2.1.0.0	B, 32	B, 32	B, 32
			2.1.0.2	32	32	32
			2.2.0.0	32	32	32
			2.3.0.0	32	32	32
			3.0.0.0	32	32	32
		HP	8.2.0.33.3p	32	32	32
		IBM	8.02.00.51	32	32	32
			8.03.01.06	B, 32	B, 32	B, 32
		Hitachi	Bundle	B, 6, 32, 69	B, 6, 32, 69	B, 6, 32, 69
	Fibre Channel over Ethernet	QLogic	8.03.00.09	32	32	32
		Brocade	2.1.0.0	B, 32	B, 32	B, 32
			2.2.0.0	32	32	32
			2.3.0.0	32	32	32

Red Hat Enterprise Linux 5.4
IA32 / x86 Processors
Kernel
2.6.18-164.el5
2.6.18-164.el5PAE

Fibre Channel	QLogic	8.03.00.10.05.04-k	B, 32	B, 32	B, 32
		8.03.00.10.05.05-k	B, 32, 65	B, 32, 65	B, 32, 65
		8.03.01.06	B, 32	B, 32	B, 32
		8.03.03.15.05.06	B, 32	B, 32	B, 32
	Emulex	8.2.0.48.2p	B, 32	B, 32	B, 32
		8.2.0.48.3p	B, 32, 64	B, 32, 64	B, 32, 64
	HP	8.03.00.10.05.04-k	32	32	32
		8.03.00.10.05.05-k	32, 65	32, 65	32, 65
		8.03.01.05.05.06-k	32	32	32
		8.2.0.48.2p	32	32	32
		8.2.0.48.3p	32, 64	32, 64	32, 64
		8.03.03.15.05.06	B, 32	B, 32	B, 32
	IBM	8.03.00.10.05.04-k	32	32	32
		8.03.00.10.05.05-k	32, 65, 66	32, 65, 66	32, 65, 66
		8.03.01.06	B, 32	B, 32	B, 32
	Brocade	2.1.0.0	B, 32	B, 32	B, 32
		2.1.0.2	32	32	32
		2.2.0.0	B, 32	B, 32	B, 32
		2.3.0.0	B, 32	B, 32	B, 32
		3.0.0.0	32	32	32
	Hitachi	Bundle	B, 6, 32, 69	B, 6, 32, 69	B, 6, 32, 69
Fibre Channel over Ethernet	Brocade	2.1.0.0	B, 32	B, 32	B, 32
		2.2.0.0	B, 32	B, 32	B, 32
		2.3.0.0	B, 32	B, 32	B, 32
	QLogic	8.03.03.15.05.06	32	32	32
	Emulex	8.2.0.71	32	32	32

Red Hat Enterprise Linux 5.4 Itanium / IA64 Processors Kernel 2.6.18-164.el5	Fibre Channel	QLogic	8.03.00.10.05.04-k	32	32	32
			8.03.00.1.05.05-k	32, 65	32, 65	32, 65
		Emulex	8.2.0.48.2p	B, 32	B, 32	B, 32
			8.2.0.48.3p	B, 32, 64	B, 32, 64	B, 32, 64
		HP	8.2.0.48.2p	32	32	32
			8.2.0.48.3p	32, 64	32, 64	32, 64
			8.03.01.05.05.06-k	32	32	32
		Brocade	2.1.0.0	32	32	32
			2.1.0.2	32	32	32
			2.2.0.0	B, 32	B, 32	B, 32
			2.3.0.0	B, 32	B, 32	B, 32
			3.0.0.0	32	32	32
	Fibre Channel over Ethernet	Brocade	2.1.0.0	32	32	32
			2.2.0.0	B, 32	B, 32	B, 32
			2.3.0.0	B, 32	B, 32	B, 32
		Emulex	8.2.0.71	32	32	32

Red Hat Enterprise Linux 5.4 X64 / x86_64 Processors Kernel 2.6.18-164.el5	Fibre Channel	QLogic	8.03.00.10.05.04-k	B, 32	B, 32	B, 32
			8.03.00.1.05.05-k	B, 32, 65	B, 32, 65	B, 32, 65
			8.03.01.06	B, 32	B, 32	B, 32
			8.03.03.15.05.06	B, 32	B, 32	B, 32
		Emulex	8.2.0.48.2p	B, 32	B, 32	B, 32
			8.2.0.48.3p	B, 32, 64	B, 32, 64	B, 32, 64
		HP	8.03.00.10.05.04-k	32	32	32
			8.03.00.1.05.05-k	32, 65	32, 65	32, 65
			8.03.01.05.05.06-k	32	32	32
			8.2.0.48.2p	32	32	32
			8.2.0.48.3p	32, 64	32, 64	32, 64
			8.03.03.15.05.06	B, 32	B, 32	B, 32
		IBM	8.03.00.10.05.04-k	32	32	32
			8.03.00.1.05.05-k	32, 65, 66	32, 65, 66	32, 65, 66
			8.03.01.06	B, 32	B, 32	B, 32
		Brocade	2.1.0.0	B, 32	B, 32	B, 32
			2.1.0.2	32	32	32
			2.2.0.0	B, 32	B, 32	B, 32
			2.3.0.0	B, 32	B, 32	B, 32
			3.0.0.0	32	32	32
		Hitachi	Bundle	B, 6, 32, 69	B, 6, 32, 69	B, 6, 32, 69
	Fibre Channel over Ethernet	Brocade	2.1.0.0	B, 32	B, 32	B, 32
			2.2.0.0	B, 32	B, 32	B, 32
			2.3.0.0	B, 32	B, 32	B, 32
		QLogic	8.03.03.15.05.06	32	32	32
		Emulex	8.2.0.71	32	32	32

Red Hat Enterprise Linux 5.5 IA32 / x86 Processors Kernel 2.6.18-194.el5 2.6.18-194.el5PAE	Fibre Channel	QLogic	8.03.01.04.05.05-k	B, 32	B, 32	B, 32
			8.03.01.06	B, 32	B, 32	B, 32
			8.03.03.15.05.06	B, 32	B, 32	B, 32
			8.03.07.03.5.6-k	32	32	32
		Emulex	8.2.0.63.3p	B, 32	B, 32	B, 32
			8.2.0.63.3p	32	32	32
		HP	8.03.01.04.05.05-k	32	32	32
			8.2.0.63.3p	32, 64	32, 64	32, 64
			8.03.03.15.05.06	B, 32	B, 32	B, 32
			8.03.07.03.5.6	B, 32	B, 32	B, 32
			8.2.0.106-1	B, 32	B, 32	B, 32
			8.2.0.134	32	32	32
		IBM	8.03.01.04.05.05-k	32	32	32
			8.03.01.04.05.05-k	B, 32	B, 32	B, 32
			8.03.01.06	B, 32	B, 32	B, 32
		Brocade	2.1.0.0	32	32	32
			2.2.0.0	B, 32	B, 32	B, 32
			2.3.0.0	B, 32	B, 32	B, 32
			3.0.0.0	B, 32	B, 32	B, 32
	Fibre Channel over Ethernet	Brocade	2.1.0.0	32	32	32
			2.2.0.0	B, 32	B, 32	B, 32
			2.3.0.0	B, 32	B, 32	B, 32
		QLogic	8.03.03.15.05.06	32	32	32
		Emulex	8.2.0.71	32	32	32
			8.2.0.96	32	32	32
			8.2.0.126	32	32	32

Red Hat Enterprise Linux 5.5 Itanium / IA64 Processors Kernel 2.6.18-194.el5	Fibre Channel	QLogic	8.03.01.04.05.05-k	32	32	32
		Emulex	8.2.0.63.3p	B, 32	B, 32	B, 32
		HP	8.2.0.63.3p	32, 64	32, 64	32, 64
			8.2.0.106-1	B, 32	B, 32	B, 32
			8.2.0.134	32	32	32
		Brocade	2.1.0.0	32	32	32
			2.2.0.0	B, 32	B, 32	B, 32
			2.3.0.0	B, 32	B, 32	B, 32
			3.0.0.0	B, 32	B, 32	B, 32
	Fibre Channel over Ethernet	Brocade	2.1.0.0	32	32	32
			2.2.0.0	B, 32	B, 32	B, 32
			2.3.0.0	B, 32	B, 32	B, 32
		Emulex	8.2.0.71	32	32	32
			8.2.0.126	32	32	32

Red Hat Enterprise Linux 5.5 X64 / x86_64 Processors Kernel 2.6.18-194.el5	Fibre Channel	QLogic	8.03.01.04.05.05-k	B, 32	B, 32	B, 32
			8.03.01.06	B, 32	B, 32	B, 32
			8.03.03.15.05.06	B, 32	B, 32	B, 32
			8.03.07.03.5.6-k	32	32	32
		Emulex	8.2.0.63.3p	B, 32	B, 32	B, 32
		HP	8.03.01.04.05.05-k	32	32	32
			8.2.0.63.3p	32, 64	32, 64	32, 64
			8.03.03.15.05.06	B, 32	B, 32	B, 32
			8.03.07.03.5.6	B, 32	B, 32	B, 32
			8.2.0.106-1	B, 32	B, 32	B, 32
			8.2.0.134	32	32	32
		IBM	8.03.01.04.05.05-k	32	32	32
			8.03.01.04.05.05-k	B, 32	B, 32	B, 32
			8.03.01.06	B, 32	B, 32	B, 32
		Brocade	2.1.0.0	32	32	32
			2.2.0.0	B, 32	B, 32	B, 32
			2.3.0.0	B, 32	B, 32	B, 32
			3.0.0.0	B, 32	B, 32	B, 32
		Cisco	1.4.0.145	32	32	32
	Fibre Channel over Ethernet	Brocade	2.1.0.0	32	32	32
			2.2.0.0	B, 32	B, 32	B, 32
			2.3.0.0	B, 32	B, 32	B, 32
		QLogic	8.03.03.15.05.06	32	32	32
		Emulex	8.2.0.71	32	32	32
			8.2.0.96	32	32	32
			8.2.0.126	32	32	32
		Cisco	1.5.0.1	32, 76	32, 76	32, 76

Red Hat Enterprise Linux 5.6 IA32 / x86 Processors Kernel 2.6.18-238.el5 2.6.18-238.el5PAE	Fibre Channel	QLogic	8.03.01.05.05.06-k	B, 32	B, 32	B, 32
			8.03.07.03.5.6-k	32	32	32
		Emulex	8.2.0.87.1p	B, 32	B, 32	B, 32
		HP	8.03.07.03.5.6	B, 32	B, 32	B, 32
			8.2.0.106-1	B, 32	B, 32	B, 32
			8.2.0.134	32	32	32
		Brocade	3.0.0.0	B, 32	B, 32	B, 32
		Hitachi	Bundle	B, 6, 32, 69	B, 6, 32, 69	B, 6, 32, 69
	Fibre Channel over Ethernet	Emulex	8.2.0.96	32	32	32
			8.2.0.126	32	32	32
Red Hat Enterprise Linux 5.6 Itanium / IA64 Processors Kernel 2.6.18-238.el5	ISCSI	Red Hat	Bundle	32, 73, 74, 75	32, 73, 74, 75	32, 73, 74, 75
	Fibre Channel	QLogic	8.03.01.05.05.06-k	32	32	32
		Emulex	8.2.0.87.1p	B, 32	B, 32	B, 32
		HP	8.2.0.106-1	B, 32	B, 32	B, 32
			8.2.0.134	32	32	32
		Brocade	3.0.0.0	32	32	32
		Hitachi	Bundle	B, 6, 32, 69	B, 6, 32, 69	B, 6, 32, 69
	Fibre Channel over Ethernet	Emulex	8.2.0.126	32	32	32
	ISCSI HBACNA	Red Hat	Bundle	32, 73, 74, 75	32, 73, 74, 75	32, 73, 74, 75

Red Hat Enterprise Linux 5.6 X64 / x86_64 Processors Kernel 2.6.18-238.el5	Fibre Channel	QLogic	8.03.01.05.05.06-k	B, 32	B, 32	B, 32
			8.03.07.03.5.6-k	32	32	32
		Emulex	8.2.0.87.1p	B, 32	B, 32	B, 32
		HP	8.03.07.03.5.6	B, 32	B, 32	B, 32
			8.2.0.106-1	B, 32	B, 32	B, 32
			8.2.0.134	32	32	32
		Brocade	3.0.0.0	B, 32	B, 32	B, 32
		Hitachi	Bundle	B, 6, 32, 69	B, 6, 32, 69	B, 6, 32, 69
	Fibre Channel over Ethernet	Emulex	8.2.0.96	32	32	32
			8.2.0.126	32	32	32
		Cisco	1.4.0.145	32, 76	32, 76	32, 76
			1.5.0.1	32, 76	32, 76	32, 76
	iSCSI	Red Hat	Bundle	32, 73, 74, 75	32, 73, 74, 75	32, 73, 74, 75

Red Hat Enterprise Linux 5.7 IA32 / x86 Processors Kernel 2.6.18-274.el5 2.6.18-274.el5PAE	Fibre Channel	QLogic	8.03.07.03.05.07-k	B, 32	B, 32	B, 32
		Emulex	8.2.0.96.2p	B, 32	B, 32	B, 32
		HP	8.2.0.134	32	32	32
			8.03.07.03.5.6	B, 32	B, 32	B, 32
			8.03.07.15.5.6	B, 32	B, 32	B, 32
	Fibre Channel over Ethernet	QLogic	8.03.07.03.05.07-k	32	32	32
		Emulex	8.2.0.126	32	32	32
		HP	8.2.0.136	32	32	32
	iSCSI	Red Hat	Bundle	32, 73, 74, 75	32, 73, 74, 75	32, 73, 74, 75
Red Hat Enterprise Linux 5.7 Itanium / IA64 Processors Kernel 2.6.18-274.el5	Fibre Channel	QLogic	8.03.07.03.05.07-k	32	32	32
		Emulex	8.2.0.96.2p	B, 32	B, 32	B, 32
		HP	8.2.0.134	32	32	32
	Fibre Channel over Ethernet	QLogic	8.03.07.03.05.07-k	32	32	32
		Emulex	8.2.0.126	32	32	32
	iSCSI	Red Hat	Bundle	32, 73, 74, 75	32, 73, 74, 75	32, 73, 74, 75

Red Hat Enterprise Linux 5.7 X64 / x86_64 Processors Kernel 2.6.18-274.el5	Fibre Channel	QLogic	8.03.07.03.05.07-k	B, 32	B, 32	B, 32
		Emulex	8.2.0.96.2p	B, 32	B, 32	B, 32
		HP	8.2.0.134	32	32	32
			8.03.07.03.5.6	B, 32	B, 32	B, 32
			8.03.07.15.5.6	B, 32	B, 32	B, 32
	Fibre Channel over Ethernet	QLogic	8.03.07.03.05.07-k	32	32	32
		Emulex	8.2.0.126	32	32	32
		HP	8.2.0.136	32	32	32
		Cisco	1.5.0.1	32, 76	32, 76	32, 76
			1.5.0.20	32, 76	32, 76	32, 76
Red Hat Enterprise Linux 5.8 IA32 / x86 Processors Kernel 2.6.18-308.el5 2.6.18-308.el5PAE	iSCSI	Red Hat	Bundle	32, 73, 74, 75	32, 73, 74, 75	32, 73, 74, 75
	Fibre Channel	QLogic	8.03.07.09.05.08-k	B, 32	B, 32	B, 32
		Emulex	8.2.0.108.4p	B, 32	B, 32	B, 32
		HP	8.2.0.134	32	32	32
			8.03.07.15.5.6	B, 32	B, 32	B, 32
			8.04.00.10.5.6	B, 32	B, 32	B, 32
	Fibre Channel over Ethernet	Emulex	8.2.0.108.4p	32	32	32
		HP	8.2.0.136	32	32	32
	iSCSI	Red Hat	Bundle	32, 73, 74, 75	32, 73, 74, 75	32, 73, 74, 75

Red Hat Enterprise Linux 5.8 Itanium / IA64 Processors Kernel 2.6.18-308.el5	Fibre Channel	QLogic	8.03.07.09.05.08-k	32	32	32
		Emulex	8.2.0.108.4p	B, 32	B, 32	B, 32
		HP	8.2.0.134	32	32	32
	Fibre Channel over Ethernet	Emulex	8.2.0.108.4p	32	32	32
	iSCSI	Red Hat	Bundle	32, 73, 74, 75	32, 73, 74, 75	32, 73, 74, 75
Red Hat Enterprise Linux 5.8 X64 / x86_64 Processors Kernel 2.6.18-308.el5	Fibre Channel	QLogic	8.03.07.09.05.08-k	B, 32	B, 32	B, 32
		Emulex	8.2.0.108.4p	B, 32	B, 32	B, 32
		HP	8.2.0.134	32	32	32
			8.03.07.15.5.6	B, 32	B, 32	B, 32
			8.04.00.10.5.6	B, 32	B, 32	B, 32
	Fibre Channel over Ethernet	Emulex	8.2.0.108.4p	32	32	32
		HP	8.2.0.136	32	32	32
		Cisco	1.5.0.1	32, 76	32, 76	32, 76
	iSCSI HBA/CNA	Red Hat	Bundle	32, 73, 74, 75	32, 73, 74, 75	32, 73, 74, 75

Red Hat Enterprise Linux 5.9 IA32 / x86 Processors Kernel 2.6.18-348.el5 2.6.18-348.el5PAE	Fibre Channel	QLogic	8.03.07.15.05.09-k	B, 32	B, 32	B, 32
		Emulex	8.2.0.128.3p	B, 32	B, 32	B, 32
		HP	8.04.00.10.5.6	B, 32	B, 32	B, 32
	iSCSI	Red Hat	Bundle	32, 73, 74, 75	32, 73, 74, 75	32, 73, 74, 75
Red Hat Enterprise Linux 5.9 Itanium / IA64 Processors Kernel 2.6.18-348.el5	Fibre Channel	QLogic	8.03.07.15.05.09-k	B, 32	B, 32	B, 32
		Emulex	8.2.0.128.3p	B, 32	B, 32	B, 32
		HP	8.04.00.10.5.6	B, 32	B, 32	B, 32
	iSCSI	Red Hat	Bundle	32, 73, 74, 75	32, 73, 74, 75	32, 73, 74, 75
Red Hat Enterprise Linux 5.9 X64 / x86_64 Processors Kernel 2.6.18-348.el5	Fibre Channel	QLogic	8.03.07.15.05.09-k	B, 32	B, 32	B, 32
		Emulex	8.2.0.128.3p	B, 32	B, 32	B, 32
		HP	8.04.00.10.5.6	B, 32	B, 32	B, 32
	iSCSI	Red Hat	Bundle	32, 73, 74, 75	32, 73, 74, 75	32, 73, 74, 75
Red Hat Enterprise Linux 5.10 IA32 / x86 Processors Kernel 2.6.18-371.el5 2.6.18-371.el5PAE	Fibre Channel	QLogic	8.03.07.15.05.09-k	B, 32	B, 32	B, 32
		Emulex	8.2.0.128.3p	B, 32	B, 32	B, 32
Red Hat Enterprise Linux 5.10 Itanium / IA64 Processors Kernel 2.6.18-371.el5	Fibre Channel	QLogic	8.03.07.15.05.09-k	B, 32	B, 32	B, 32
		Emulex	8.2.0.128.3p	B, 32	B, 32	B, 32
Red Hat Enterprise Linux 5.10 X64 / x86_64 Processors Kernel 2.6.18-371.el5	Fibre Channel	QLogic	8.03.07.15.05.09-k	B, 32	B, 32	B, 32
		Emulex	8.2.0.128.3p	B, 32	B, 32	B, 32
Red Hat Enterprise Linux 6 IA32 / x86 Processors Kernel 2.6.32-71.el6.i686	Fibre Channel	QLogic	8.03.01.05.06.0-k8	B, 32	B, 32	B, 32
		Emulex	8.3.5.17	B, 32	B, 32	B, 32
		Brocade	2.3.0.0	B, 32	B, 32	B, 32
		Brocade	2.3.0.0	B, 32	B, 32	B, 32
	Fibre Channel over Ethernet	QLogic	8.03.04.12.06.0-k0	32	32	32
		Emulex	8.3.5.65	B, 32	B, 32	B, 32

Red Hat Enterprise Linux 6 X64 / x86_64 Processors Kernel 2.6.32-71.el6.x86_64	Fibre Channel	QLogic	8.03.01.05.06.0-k8	B, 32	B, 32	B, 32
		Emulex	8.3.5.17	B, 32	B, 32	B, 32
		Brocade	2.3.0.0	B, 32	B, 32	B, 32
	Fibre Channel over Ethernet	Brocade	2.3.0.0	B, 32	B, 32	B, 32
		QLogic	8.03.04.12.06.0-k0	32	32	32
		Emulex	8.3.5.65	B, 32	B, 32	B, 32
		Cisco	1.5.0.1	32, 76	32, 76	32, 76
Red Hat Enterprise Linux 6.1 IA32 / x86 Processors Kernel 2.6.32-131.0.15.el6.i686	Fibre Channel	QLogic	8.03.07.03.06.1-k	B, 32	B, 32	B, 32
			8.03.07.13.06.0-k	32	32	32
		Emulex	8.3.5.30.1p	B, 32	B, 32	B, 32
		Brocade	3.0.0.0	B, 32	B, 32	B, 32
		Hitachi	Bundle	B, 6, 32, 69	B, 6, 32, 69	B, 6, 32, 69
	Fibre Channel over Ethernet	Emulex	8.3.5.30.1p	32	32	32
			8.3.5.65	B, 32	B, 32	B, 32
	iSCSI	Red Hat	Bundle	32, 73, 74, 75	32, 73, 74, 75	32, 73, 74, 75

Red Hat Enterprise Linux 6.1 X64 / x86_64 Processors Kernel 2.6.32-131.0.15.el6.x86_64	Fibre Channel	QLogic	8.03.07.03.06.1-k	B, 32	B, 32	B, 32
			8.03.07.13.06.0-k	32	32	32
		Emulex	8.3.5.30.1p	B, 32	B, 32	B, 32
		Brocade	3.0.0.0	B, 32	B, 32	B, 32
		Hitachi	Bundle	B, 6, 32, 69	B, 6, 32, 69	B, 6, 32, 69
	Fibre Channel over Ethernet	Emulex	8.3.5.30.1p	32	32	32
			8.3.5.65	B, 32	B, 32	B, 32
		HP	8.3.5.77.1p	32	32	32
		Cisco	1.5.0.1	32, 76	32, 76	32, 76
	iSCSI	Red Hat	Bundle	32, 73, 74, 75	32, 73, 74, 75	32, 73, 74, 75

Red Hat Enterprise Linux 6.2 IA32 / x86 Processors Kernel 2.6.32-220.el6.i686	Fibre Channel	QLogic	8.03.07.05.06.2-k	B, 32	B, 32	B, 32
			8.03.07.13.06.0-k	32	32	32
			8.04.00.06.06.0-k	32	32	32
		Emulex	8.3.5.45.4p	B, 32	B, 32	B, 32
		Hitachi	Bundle	B, 6, 32, 69	B, 6, 32, 69	B, 6, 32, 69
	Fibre Channel over Ethernet	Emulex	8.3.5.65	B, 32	B, 32	B, 32
	iSCSI	Red Hat	Bundle	B, 32, 74, 75	B, 32, 74, 75	B, 32, 74, 75
	iSCSI HBACNA	Emulex	4.1.334.15	32, 73	32, 73	32, 73
			4.2.374.0	32, 77	32, 77	32, 77
Red Hat Enterprise Linux 6.2 X64 / x86_64 Processors Kernel 2.6.32-220.el6.x86_64	Fibre Channel	QLogic	8.03.07.05.06.2-k	B, 32	B, 32	B, 32
			8.03.07.13.06.0-k	32	32	32
			8.04.00.06.06.0-k	32	32	32
		Emulex	8.3.5.45.4p	B, 32	B, 32	B, 32
		Hitachi	Bundle	B, 6, 32, 69	B, 6, 32, 69	B, 6, 32, 69
	Fibre Channel over Ethernet	Emulex	8.3.5.65	B, 32	B, 32	B, 32
		HP	8.3.5.77.1p	32	32	32
		Cisco	1.5.0.1	32, 76	32, 76	32, 76
	iSCSI	Red Hat	Bundle	B, 32, 74, 75	B, 32, 74, 75	B, 32, 74, 75
	iSCSI HBACNA	Emulex	4.1.334.15	32, 73	32, 73	32, 73
			4.2.374.0	32, 77	32, 77	32, 77

Red Hat Enterprise Linux 6.3 IA32 / x86 Processors Kernel 2.6.32-279.el6.i686	Fibre Channel	QLogic	8.04.00.08.06.4-k	B, 32	B, 32	B, 32
			8.05.00.03.06.0-k	32	32	32
		Emulex	8.3.5.68.5p	B, 32	B, 32	B, 32
	Fibre Channel over Ethernet	QLogic	8.04.00.04.06.3-k	32	32	32
	iSCSI	Red Hat	Bundle	32, 73, 74, 75	32, 73, 74, 75	32, 73, 74, 75
Red Hat Enterprise Linux 6.3 X64 / x86_64 Processors Kernel 2.6.32-279.el6.x86_64	Fibre Channel	QLogic	8.04.00.08.06.4-k	B, 32	B, 32	B, 32
			8.05.00.03.06.0-k	32	32	32
		Emulex	8.3.5.68.5p	B, 32	B, 32	B, 32
	Fibre Channel over Ethernet	QLogic	8.04.00.04.06.3-k	32	32	32
	iSCSI	Red Hat	Bundle	32, 73, 74, 75	32, 73, 74, 75	32, 73, 74, 75
Red Hat Enterprise Linux 6.4 IA32 / x86 Processors Kernel 2.6.32-358.el6.i686	Fibre Channel	QLogic	8.04.00.08.06.4-k	B, 32	B, 32	B, 32
			8.05.00.03.06.0-k	32	32	32
		Emulex	8.3.5.86.1p	B, 32	B, 32	B, 32
		Hitachi	Bundle	B, 6, 32, 69	B, 6, 32, 69	B, 6, 32, 69
	iSCSI	Red Hat	Bundle	32, 73, 74, 75	32, 73, 74, 75	32, 73, 74, 75
Red Hat Enterprise Linux 6.4 X64 / x86_64 Processors Kernel 2.6.32-358.el6.x86_64	Fibre Channel	QLogic	8.04.00.08.06.4-k	B, 32	B, 32	B, 32
			8.05.00.03.06.0-k	32	32	32
		Emulex	8.3.5.86.1p	B, 32	B, 32	B, 32
		HP	8.04.00.12.06.0-k2	32	32	32
		Hitachi	Bundle	B, 6, 32, 69	B, 6, 32, 69	B, 6, 32, 69
	Fibre Channel over Ethernet	Cisco	1.5.0.45	32	32	32
	iSCSI	Red Hat	Bundle	32, 73, 74, 75	32, 73, 74, 75	32, 73, 74, 75

Supported		
Not Supported		

Notes	
	B SAN boot is supported.
6	This is only supported in environments in combination with Hitachi Compute Blade.
7	Only the kernel package kernel-2.4.21-20.EL IA32 / x86.rpm is supported.
8	Only the kernel package kernel-2.4.21-27.EL IA32 / x86.rpm is supported.
31	GFS and GFS2 are not supported.
32	GFS is not supported. For details on GFS2 support, see "9. Linux".
45	When using GGX-CC9MZFC1, use the 1.16.136 or later driver, or the 4.1.6.136 or later driver.
60	The default setting of these drivers is "Failover". If you want to change the setting to "Disable", set the following in the /etc/modprobe.conf file: options qla2xxx ql2xfailover=0
61	Only Red Hat Enterprise Linux AS kernel is supported.
62	SAN boot is supported by kernel 2.6.18-53.1.21 or later.
63	Supported by kernel 2.6.9-89.0.20 or later.
64	Supported by kernel 2.6.18-164.11.1 or later.
65	Supported by kernel 2.6.18-164.9.1 or later.
66	The following HBA model is supported: 44X1945
67	The following HBA models are supported: FC2143, FC2243, FC2142SR, FC2242SR
68	The following HBA model is supported: 403621-B21
69	All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.
70	Supported by kernel 2.6.9-89.0.25 or later.
71	Supported by HDLM 6.6.2-01 and later.
73	Boot disk environment configurations are not supported.
74	iSCSI HBA/CNA is not supported.
75	10GbE NIC is not supported.
76	Only using an HDLM device as the boot disk is supported.
77	CNA FW 4.2.433.604 or later is required.

Oracle Enterprise Linux Server				HDL M Version		
OS	HBA		Driver	7.4.1	7.5.0	7.6.0
Oracle Enterprise Linux 4 (Update 5) IA32 / x86 Processors Kernel 2.6.9-55.0.0.0.2.EL 2.6.9-55.0.0.0.2.ELsmp 2.6.9-55.0.0.0.2.ELhugemem	Fibre Channel	QLogic	8.01.04-d8			
			8.02.23			
		Emulex	8.0.16.27			
Oracle Enterprise Linux 4 (Update 5) AMD64 / EM64T Processors Kernel 2.6.9-55.0.0.0.2.EL 2.6.9-55.0.0.0.2.ELsmp 2.6.9-55.0.0.0.2.ELlargesmp	Fibre Channel	QLogic	8.01.04-d8			
			8.02.23			
		Emulex	8.0.16.27			
Oracle Enterprise Linux 4 (Update 6) IA32 / x86 Processors Kernel 2.6.9-67.0.0.0.1.EL 2.6.9-67.0.0.0.1.ELsmp 2.6.9-67.0.0.0.1.ELhugemem	Fibre Channel	QLogic	8.01.07-d4	B	B	B
		Emulex	8.0.16.34			
Oracle Enterprise Linux 4 (Update 6) AMD64 / EM64T Processors Kernel 2.6.9-67.0.0.0.1.EL 2.6.9-67.0.0.0.1.ELsmp 2.6.9-67.0.0.0.1.ELlargesmp	Fibre Channel	QLogic	8.01.07-d4	B	B	B
		Emulex	8.0.16.34			
Oracle Enterprise Linux 5 (Update 1) IA32 / x86 Processors Kernel 2.6.18-53.el5 or 2.6.18-53.el5PAE	Fibre Channel	QLogic	8.01.07-k7	B, 31	B, 31	B, 31
		Emulex	8.1.10.9	B, 31	B, 31	B, 31
Oracle Enterprise Linux 5 (Update 1) X64 / x86_64 Processors Kernel 2.6.18-53.el5 or 2.6.18-53.el5PAE	Fibre Channel	QLogic	8.01.07-k7	B, 31	B, 31	B, 31
		Emulex	8.1.10.9	B, 31	B, 31	B, 31
Oracle Enterprise Linux 5.4 IA32 / x86 Processors Kernel 2.6.18-164.el5 or 2.6.18-164.el5PAE	Fibre Channel	QLogic	8.03.00.10.05.04-k	B, 32	B, 32	B, 32
		Emulex	8.2.0.48.2p	B, 32	B, 32	B, 32

Oracle Enterprise Linux 5.4 X64 / x86_64 Processors Kernel 2.6.18-53.el5	Fibre Channel	QLogic	8.03.00.10.05.04-k	B, 32	B, 32	B, 32
		Emulex	8.2.0.48.2p	B, 32	B, 32	B, 32
Oracle Enterprise Linux 5.5 IA32 / x86 Processors Kernel 2.6.18-194.el5 or 2.6.18-194.el5PAE	Fibre Channel	QLogic	8.03.01.04.05.05-k	B, 32	B, 32	B, 32
		Emulex	8.2.0.63.3p	B, 32	B, 32	B, 32
Oracle Enterprise Linux 5.5 X64 / x86_64 Processors Kernel 2.6.18-194.el5	Fibre Channel	QLogic	8.03.01.04.05.05-k	B, 32	B, 32	B, 32
		Emulex	8.2.0.63.3p	B, 32	B, 32	B, 32
Oracle Enterprise Linux 5.6 IA32 / x86 Processors Kernel 2.6.18-238.el5 or 2.6.18-238.el5PAE	Fibre Channel	QLogic	8.03.01.05.05.06-k	B, 32	B, 32	B, 32
		Emulex	8.2.0.87.1p	B, 32	B, 32	B, 32
Oracle Enterprise Linux 5.6 X64 / x86_64 Processors Kernel 2.6.18-238.el5	Fibre Channel	QLogic	8.03.01.05.05.06-k	B, 32	B, 32	B, 32
		Emulex	8.2.0.87.1p	B, 32	B, 32	B, 32
Oracle Enterprise Linux 5.7 IA32 / x86 Processors Kernel 2.6.18-274.el5 or 2.6.18-274.el5PAE	Fibre Channel	QLogic	8.03.07.03.05.07-k	B, 32	B, 32	B, 32
		Emulex	8.2.0.96.2p	B, 32	B, 32	B, 32
Oracle Enterprise Linux 5.7 X64 / x86_64 Processors Kernel 2.6.18-274.el5	Fibre Channel	QLogic	8.03.07.03.05.07-k	B, 32	B, 32	B, 32
		Emulex	8.2.0.96.2p	B, 32	B, 32	B, 32

Supported		
Not Supported		

Notes	
B	SAN boot is supported.
31	GFS and GFS2 are not supported.
32	GFS is not supported. For details on GFS2 support, see "8. Linux".

IMPORTANT NOTE

Security fix kernels can not be supported. Please contact appropriate person in HDS for an Interoperability Support Request (ISR).

HDL is dependent only on the driver version, not the HBA model. For this reason, specific HBA models are no longer listed, just driver versions. So if the HBA driver version is supported, then HDL is supported. This also means that OEM versions are supported, as long as the driver is supported.

Oracle Unbreakable Enterprise Kernel				HDLM Version		
OS		HBA	Driver	7.4.1	7.5.0	7.6.0
Oracle Unbreakable Enterprise Kernel 5.6 X64 / x86_64 Processors Kernel 2.6.32-100.26.2.el5	Fibre Channel	QLogic	8.03.01.02.32.1-k9	B, 32	B, 32	B, 32
		Emulex	8.3.18	B, 32	B, 32	B, 32
Oracle Unbreakable Enterprise Kernel 5.7 IA32 / x86 Processors Kernel 2.6.32-200.13.1.el5uek	Fibre Channel	QLogic	8.03.07.04.32.1-k	B, 32	B, 32	B, 32
		Emulex	8.3.5.44	B, 32	B, 32	B, 32
Oracle Unbreakable Enterprise Kernel 5.7 IA32 / x86 Processors Kernel 2.6.32-300.27.1.el5uek	Fibre Channel	QLogic	8.03.07.08.32.1-k	B, 32	B, 32	B, 32
		Emulex	8.3.5.45.4p	B, 32	B, 32	B, 32
Oracle Unbreakable Enterprise Kernel 5.7 X64 / x86_64 Processors Kernel 2.6.32-200.13.1.el5uek	Fibre Channel	QLogic	8.03.07.04.32.1-k	B, 32	B, 32	B, 32
		Emulex	8.3.5.44	B, 32	B, 32	B, 32
Oracle Unbreakable Enterprise Kernel 5.7 X64 / x86_64 Processors Kernel 2.6.32-300.27.1.el5uek	Fibre Channel	QLogic	8.03.07.08.32.1-k	B, 32	B, 32	B, 32
		Emulex	8.3.5.45.4p	B, 32	B, 32	B, 32
Oracle Unbreakable Enterprise Kernel 6.2 IA32 / x86 Processors Kernel 2.6.39-200.29.1.el6uek.i686	Fibre Channel	QLogic	8.04.00.03.39.0-k	B, 32	B, 32	B, 32
		Emulex	8.3.5.68.6p	B, 32	B, 32	B, 32
Oracle Unbreakable Enterprise Kernel 6.2 IA32 / x86 Processors Kernel 2.6.39-200.29.2.el6uek.i686	Fibre Channel	QLogic	8.04.00.03.39.0-k	B, 32	B, 32	B, 32
		Emulex	8.3.5.68.6p	B, 32	B, 32	B, 32
Oracle Unbreakable Enterprise Kernel 6.2 X64 / x86_64 Processors Kernel 2.6.39-200.29.1.el6uek.x86_64	Fibre Channel	QLogic	8.04.00.03.39.0-k	B, 32	B, 32	B, 32
		Emulex	8.3.5.68.6p	B, 32	B, 32	B, 32
Oracle Unbreakable Enterprise Kernel 6.2 X64 / x86_64 Processors Kernel 2.6.39-200.29.2.el6uek.x86_64	Fibre Channel	QLogic	8.04.00.03.39.0-k	B, 32	B, 32	B, 32
		Emulex	8.3.5.68.6p	B, 32	B, 32	B, 32
Oracle Unbreakable Enterprise Kernel 6.3 IA32 / x86 Processors Kernel 2.6.39-200.24.1.el6uek.i686	Fibre Channel	QLogic	8.04.00.03.39.0-k	B, 32	B, 32	B, 32
		Emulex	8.3.5.68.6p	B, 32	B, 32	B, 32
Oracle Unbreakable Enterprise Kernel 6.3 X64 / x86_64 Processors Kernel 2.6.39-200.24.1.el6uek.x86_64	Fibre Channel	QLogic	8.04.00.03.39.0-k	B, 32	B, 32	B, 32
		Emulex	8.3.5.68.6p	B, 32	B, 32	B, 32

Supported	
Not Supported	

Notes

B SAN boot is supported.

32 GFS is not supported. For details on GFS2 support, see "8. Linux".

IMPORTANT NOTE

Security fix kernels can be supported without ISRs if their base kernels are supported and all of conditions below are met.

- (1) The security fix kernels are for RHEL4.5/ SLES10 or later.
 (2) Bundled driver versions of the security fix kernels are the same as the bundled driver versions of the supported base kernels.
 If your requested security fix kernel is for RHEL4.4/SLES9 or before, or has a different bundled driver version from one of the base kernels, please contact appropriate person in HDS for an Interoperability Support Request (ISR).

HDLM is dependent only on the driver version, not the HBA model. For this reason, specific HBA models are no longer listed, just driver versions. So if the HBA driver version is supported, then HDLM is supported. This also means that OEM versions are supported, as long as the driver is supported.

All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.

SUSE Linux Enterprise Server				HDLM Version		
OS	HBA	Driver		7.4.1	7.5.0	7.6.0
SUSE Linux Enterprise Server 9 (Service Pack 4) IA32 / x86 Processors Kernel 2.6.5-7.308-default 2.6.5-7.308-smp 2.6.5-7.308-bigsm	Fibre Channel	QLogic	8.01.07.15			
			8.02.14			
		Emulex	8.0.16.34			
			8.0.16.40			
		Brocade	1.0.0			
			1.1.0.1			
	Fibre Channel over Ethernet	Emulex	8.0.16.44			
SUSE Linux Enterprise Server 9 (Service Pack 4) Itanium / IA64 Processors Kernel 2.6.5-7.308-default 2.6.5-7.308-64k-pagesize	Fibre Channel	QLogic	8.01.07.15			
			8.02.14			
		Emulex	8.0.16.34			
			8.0.16.40			
	Brocade	1.0.0				
SUSE Linux Enterprise Server 9 (Service Pack 4) EM64T/AMD64 Processors Kernel 2.6.5-7.308-default 2.6.5-7.308-smp	Fibre Channel	QLogic	8.01.07.15			
			8.02.14			
		Emulex	8.0.16.34			
			8.0.16.40			
		Brocade	1.0.0			
			1.1.0.1			
	Fibre Channel over Ethernet	Emulex	8.0.16.44			
SUSE Linux Enterprise Server 9 (Service Pack 4 + Security Fix) IA32 / x86 Processors Kernel 2.6.5-7.315-default 2.6.5-7.315-smp 2.6.5-7.315-bigsm	Fibre Channel	QLogic	8.01.07.15			
		Emulex	8.0.16.34			
	Fibre Channel over Ethernet	Emulex	8.0.16.44			

SUSE Linux Enterprise Server 9 (Service Pack 4 + Security Fix) EM64T/AMD64 Processors Kernel 2.6.5-7.315-default 2.6.5-7.315-smp	Fibre Channel	QLogic	8.01.07.15			
		Emulex	8.0.16.34			
	Fibre Channel over Ethernet	Emulex	8.0.16.44			
SUSE Linux Enterprise Server 10 IA32 / x86 Processors Kernel 2.6.16.21-0.8-default 2.6.16.21-0.8-smp 2.6.16.21-0.8-bigsm	Fibre Channel	QLogic	8.01.04-k	26,46	26,46	26,46
		Emulex	8.1.6	26,46	26,46	26,46
			8.1.6.6	26	26	26
		IBM	8.1.6.6	26	26	26
SUSE Linux Enterprise Server 10 Itanium / IA64 Processors Kernel 2.6.16.21-0.8-default	Fibre Channel	QLogic	8.01.04-k	26,46	26,46	26,46
		Emulex	8.1.6	26,46	26,46	26,46
			8.1.6.6	26	26	26
		IBM	8.1.6.6	26	26	26
SUSE Linux Enterprise Server 10 EM64T/AMD64 Processors Kernel 2.6.16.21-0.8-default 2.6.16.21-0.8-smp	Fibre Channel	QLogic	8.01.04-k	26,46	26,46	26,46
		Emulex	8.1.6	26,46	26,46	26,46
			8.1.6.6	26	26	26
		IBM	8.1.6.6	26	26	26
SUSE Linux Enterprise Server 10 (Service Pack 1 Errata) IA32 / x86 Processors Kernel 2.6.16.46-0.14-default 2.6.16.46-0.14-smp 2.6.16.46-0.14-bigsm	Fibre Channel	QLogic	8.01.07-k3	B, 26	B, 26	B, 26
			8.02.14	26, 62	26, 62	26, 62
		Emulex	8.1.10.3	26	26	26
			8.1.10.12	26	26	26
	Fibre Channel over Ethernet	Emulex	8.2.0.29	26	26	26
SUSE Linux Enterprise Server 10 (Service Pack 1 Errata) Itanium / IA64 Processors Kernel 2.6.16.46-0.14-default	Fibre Channel	QLogic	8.01.07-k3	26	26	26
			8.02.14	26	26	26
		Emulex	8.1.10.3	26	26	26
			8.1.10.12	26	26	26
	Fibre Channel over Ethernet	Emulex	8.2.0.29	26	26	26
SUSE Linux Enterprise Server 10 (Service Pack 1 Errata) EM64T/AMD64 Processors Kernel 2.6.16.46-0.14-default 2.6.16.46-0.14-smp	Fibre Channel	QLogic	8.01.07-k3	B, 26	B, 26	B, 26
			8.02.14	26, 62	26, 62	26, 62
		Emulex	8.1.10.3	26	26	26
			8.1.10.12	26	26	26
			Bundle	B, 6, 61	B, 6, 61	B, 6, 61
	Fibre Channel over Ethernet	Emulex	8.01.07-k3	26	26	26
			8.2.0.29	26	26	26

SUSE Linux Enterprise Server 10 (Service Pack 2) IA32 / x86 Processors Kernel 2.6.16.60-0.21-default 2.6.16.60-0.21-smp 2.6.16.60-0.21-bigsmp	Fibre Channel	QLogic	8.02.00-k6	B, 26	B, 26	B, 26
			8.02.14	26, 62	26, 62	26, 62
		Emulex	8.2.0.22	26	26	26
		Brocade	1.0.0.2	26	26	26
			1.0.0.3	26	26	26
			1.1.0.1	26	26	26
			2.1.0.0	26	26	26
			2.2.0.0	B, 26	B, 26	B, 26
	Fibre Channel over Ethernet	Emulex	8.2.0.29	26	26	26
			8.2.0.96	26	26	26
		QLogic	8.03.00.08	26	26	26
		Brocade	2.1.0.0	26	26	26
SUSE Linux Enterprise Server 10 (Service Pack 2) IA32 / x86 Processors Kernel 2.6.16.60-0.21-xenpae	Fibre Channel	QLogic	8.02.00-k6	B	B	B
		Emulex	8.2.0.22			
	Fibre Channel over Ethernet	Emulex	8.2.0.96			
SUSE Linux Enterprise Server 10 (Service Pack 2) Itanium / IA64 Processors Kernel 2.6.16.60-0.21-default	Fibre Channel	QLogic	8.02.00-k6	26	26	26
			8.02.14	26, 62	26, 62	26, 62
		Emulex	8.2.0.22	26	26	26
		Brocade	1.0.0.2	26	26	26
			1.0.0.3	26	26	26
			1.1.0.1	26	26	26
			2.1.0.0	26	26	26
			2.2.0.0	B, 26	B, 26	B, 26
	Fibre Channel over Ethernet	Emulex	8.2.0.29	26	26	26
		Brocade	2.1.0.0	26	26	26
SUSE Linux Enterprise Server 10 (Service Pack 2) EM64T/AMD64 Processors Kernel 2.6.16.60-0.21-default 2.6.16.60-0.21-smp	Fibre Channel	QLogic	8.02.00-k6	B, 26	B, 26	B, 26
			8.02.14	26	26	26
		Emulex	8.2.0.22	26	26	26
		Brocade	1.0.0.2	26	26	26
			1.0.0.3	26	26	26
			1.1.0.1	26	26	26
			2.1.0.0	26	26	26
			2.2.0.0	B, 26	B, 26	B, 26
	Fibre Channel over Ethernet	QLogic	8.03.00.08	26	26	26
		Emulex	8.2.0.29	26	26	26
			8.2.0.96	26	26	26
		Brocade	2.1.0.0	26	26	26

SUSE Linux Enterprise Server 10 (Service Pack 2) EM64T/AMD64 Processors Kernel 2.6.16.60-0.21-xen	Fibre Channel	QLogic	8.02.00-k6	B	B	B
		Emulex	8.2.0.22			
	Fibre Channel over Ethernet	Emulex	8.2.0.96			
SUSE Linux Enterprise Server 10 (Service Pack 3) IA32 / x86 Processors Kernel 2.6.16.60-0.54.5-default 2.6.16.60-0.54.5-smp 2.6.16.60-0.54.5-bigsmmp	Fibre Channel	QLogic	8.03.00.10.10.3-k4	B, 26	B, 26	B, 26
		Emulex	8.2.0.48.2p	26	26	26
		Brocade	2.2.0.0	B, 26	B, 26	B, 26
			2.3.0.0	B, 26	B, 26	B, 26
	Fibre Channel over Ethernet	Brocade	2.3.0.0	B, 26	B, 26	B, 26
		QLogic	8.03.01.13.10.3-k4	26	26	26
		Emulex	8.2.0.96	26	26	26

SUSE Linux Enterprise Server 10 (Service Pack 3) IA32 / x86 Processors Kernel 2.6.16.60-0.54.5-xenpae	Fibre Channel	QLogic	8.03.00.10.10.3-k4	B	B	B
		Emulex	8.2.0.48.2p			
		Brocade	2.3.0.0	B	B	B
	Fibre Channel over Ethernet	Brocade	2.3.0.0	B	B	B
		QLogic	8.03.01.13.10.3-k4			
		Emulex	8.2.0.96			
SUSE Linux Enterprise Server 10 (Service Pack 3) Itanium / IA64 Processors Kernel 2.6.16.60-0.54.5-default	Fibre Channel	QLogic	8.03.00.10.10.3-k4	26	26	26
		Emulex	8.2.0.48.2p	26	26	26
		Brocade	2.2.0.0	B, 26	B, 26	B, 26
			2.3.0.0	B, 26	B, 26	B, 26
	Fibre Channel over Ethernet	Brocade	2.3.0.0	B, 26	B, 26	B, 26

SUSE Linux Enterprise Server 10 (Service Pack 3) EM64T/AMD64 Processors Kernel 2.6.16.60-0.54.5-default	Fibre Channel	QLogic	8.03.00.10.10.3-k4	B, 26	B, 26	B, 26
		Emulex	8.2.0.48.2p	26	26	26
		Brocade	2.2.0.0	B, 26	B, 26	B, 26
			2.3.0.0	B, 26	B, 26	B, 26
	Fibre Channel over Ethernet	Brocade	2.3.0.0	B, 26	B, 26	B, 26
		QLogic	8.03.01.13.10.3-k4	26	26	26
		Emulex	8.2.0.96	26	26	26
SUSE Linux Enterprise Server 10 (Service Pack 3) EM64T/AMD64 Processors Kernel 2.6.16.60-0.54.5-xen	Fibre Channel	QLogic	8.03.00.10.10.3-k4	B	B	B
		Emulex	8.2.0.48.2p			
		Brocade	2.3.0.0	B	B	B
	Fibre Channel over Ethernet	Brocade	2.3.0.0	B	B	B
		QLogic	8.03.01.13.10.3-k4			
		Emulex	8.2.0.96	26	26	26

SUSE Linux Enterprise Server 10 (Service Pack 4) IA32 / x86 Processors Kernel 2.6.16.60-0.85.1-default 2.6.16.60-0.85.1-smp 2.6.16.60-0.85.1-bigsmp	Fibre Channel	QLogic	8.03.01.12.10.3-k4	B, 26	B, 26	B, 26
		Emulex	8.2.0.92.1p	26	26	26
SUSE Linux Enterprise Server 10 (Service Pack 4) IA32 / x86 Processors Kernel 2.6.16.60-0.85.1-xenpae	Fibre Channel	QLogic	8.03.01.12.10.3-k4	B	B	B
		Emulex	8.2.0.92.1p			
SUSE Linux Enterprise Server 10 (Service Pack 4) Itanium / IA64 Processors Kernel 2.6.16.60-0.85.1-default	Fibre Channel	QLogic	8.03.01.12.10.3-k4	26	26	26
		Emulex	8.2.0.92.1p	26	26	26
SUSE Linux Enterprise Server 10 (Service Pack 4) EM64T/AMD64 Processors Kernel 2.6.16.60-0.85.1-default 2.6.16.60-0.85.1-smp	Fibre Channel	QLogic	8.03.01.12.10.3-k4	B, 26	B, 26	B, 26
		Emulex	8.2.0.92.1p	26	26	26
SUSE Linux Enterprise Server 10 (Service Pack 4) EM64T/AMD64 Processors Kernel 2.6.16.60-0.85.1-xen	Fibre Channel	QLogic	8.03.01.12.10.3-k4	B	B	B
		Emulex	8.2.0.92.1p			
SUSE Linux Enterprise Server 11 (Security Fix) IA32 / x86 Processors Kernel 2.6.27.21-0.1.2-default 2.6.27.21-0.1.2-pae	Fibre Channel	QLogic	8.02.01.03.11.0-k9	B, 26	B, 26	B, 26
		Emulex	8.2.8.14	26	26	26
		Brocade	2.1.0.0	26	26	26
			2.2.0.0	B, 26	B, 26	B, 26
	Fibre Channel over Ethernet	Brocade	2.1.0.0	26	26	26
		QLogic	8.03.01.15.11.0-k4	26	26	26
	iSCSI HBA/CNA	Novell	Bundle	65, 66, 67	65, 66, 67	65, 66, 67

SUSE Linux Enterprise Server 11 (Security Fix) IA32 / x86 Processors Kernel 2.6.27.21-0.1.2-xen	Fibre Channel	QLogic	8.02.01.03.11.0-k9	B	B	B
		Emulex	8.2.8.14			
	Fibre Channel over Ethernet	QLogic	8.03.01.15.11.0-k4			
	iSCSI HBA/CNA	Novell	Bundle	65, 66, 67	65, 66, 67	65, 66, 67
SUSE Linux Enterprise Server 11 (Security Fix) Itanium / IA64 Processors Kernel 2.6.27.21-0.1.2-default	Fibre Channel	QLogic	8.02.01.03.11.0-k9	26	26	26
		Emulex	8.2.8.14	26	26	26
		Brocade	2.1.0.0	26	26	26
			2.2.0.0	B, 26	B, 26	B, 26
	Fibre Channel over Ethernet	Brocade	2.1.0.0	26	26	26
	iSCSI HBWC NA	Novell	Bundle	65, 66, 67	65, 66, 67	65, 66, 67
SUSE Linux Enterprise Server 11 (Security Fix) EM64T/AMD64 Processors Kernel 2.6.27.21-0.1.2-default	Fibre Channel	QLogic	8.02.01.03.11.0-k9	B, 26	B, 26	B, 26
		Emulex	8.2.8.14	26	26	26
		Brocade	2.1.0.0	26	26	26
			2.2.0.0	B, 26	B, 26	B, 26
	Fibre Channel over Ethernet	Brocade	2.1.0.0	26	26	26
		QLogic	8.03.01.15.11.0-k4	26	26	26
	iSCSI HBA/CNA	Novell	Bundle	65, 66, 67	65, 66, 67	65, 66, 67

SUSE Linux Enterprise Server 11 (Security Fix) EM64T/AMD64 Processors Kernel 2.6.27.21-0.1.2-xen	Fibre Channel	QLogic	8.02.01.03.11.0-k9	B	B	B
		Emulex	8.2.8.14			
	Fibre Channel over Ethernet	QLogic	8.03.01.15.11.0-k4			
	iSCSI HBA/CNA	Novell	Bundle	65, 66, 67	65, 66, 67	65, 66, 67
SUSE Linux Enterprise Server 11 (Service Pack 1) IA32 / x86 Processors Kernel 2.6.32.12-0.7.1-default 2.6.32.12-0.7.1-pae	Fibre Channel	QLogic	8.03.01.06.11.1-k8	B, 26	B, 26	B, 26
			8.03.01.08.11.1-k8	B, 26, 63	B, 26, 63	B, 26, 63
			8.03.07.13.11.1-k	26	26	26
			8.03.04.14.11.1-k0	26	26	26
		Emulex	8.3.5.8.1p	26	26	26
			8.3.5.8.2p	64	64	64
		Brocade	2.3.0.0	B, 26	B, 26	B, 26
	Fibre Channel over Ethernet	Brocade	2.3.0.0	B, 26	B, 26	B, 26
		QLogic	8.03.04.14.11.1-k0	26	26	26
		Emulex	8.3.5.35	26	26	26
	iSCSI HBA/CNA	Novell	Bundle	65, 66, 67	65, 66, 67	65, 66, 67

SUSE Linux Enterprise Server 11 (Service Pack 1) IA32 / x86 Processors Kernel 2.6.32.12-0.7.1-xen	Fibre Channel	QLogic	8.03.01.06.11.1-k8	B	B	B
			8.03.01.08.11.1-k8	B, 63	B, 63	B, 63
			8.03.07.13.11.1-k			
			8.03.04.14.11.1-k0			
		Emulex	8.3.5.8.1p			
			8.3.5.8.2p	64	64	64
		Brocade	2.3.0.0	B	B	B
	Fibre Channel over Ethernet	Brocade	2.3.0.0	B	B	B
		QLogic	8.03.04.14.11.1-k0			
		Emulex	8.3.5.35			
	iSCSI HBACNA	Novell	Bundle	65, 66, 67	65, 66, 67	65, 66, 67

SUSE Linux Enterprise Server 11 (Service Pack 1) Itanium / IA64 Processors Kernel 2.6.32.12-0.7.1-default	Fibre Channel	QLogic	8.03.01.06.11.1-k8	26	26	26
			8.03.01.08.11.1-k8	26, 63	26, 63	26, 63
		Emulex	8.3.5.8.1p	26	26	26
			8.3.5.8.2p	64	64	64
		Brocade	2.3.0.0	B, 26	B, 26	B, 26
	Fibre Channel over Ethernet	Brocade	2.3.0.0	B, 26	B, 26	B, 26
SUSE Linux Enterprise Server 11 (Service Pack 1) EM64T/AMD64 Processors Kernel 2.6.32.12-0.7.1-default	Fibre Channel	QLogic	8.03.01.06.11.1-k8	B, 26	B, 26	B, 26
			8.03.01.08.11.1-k8	B, 26, 63	B, 26, 63	B, 26, 63
			8.03.07.13.11.1-k	26	26	26
			8.03.04.14.11.1-k0	26	26	26
		Emulex	8.3.5.8.1p	26	26	26
			8.3.5.8.2p	64	64	64
		Brocade	2.3.0.0	B, 26	B, 26	B, 26
	Fibre Channel over Ethernet	Brocade	2.3.0.0	B, 26	B, 26	B, 26
		QLogic	8.03.04.14.11.1-k0	26	26	26
		Emulex	8.3.5.35	26	26	26
	iSCSI HBACNA	Novell	Bundle	65, 66, 67	65, 66, 67	65, 66, 67

SUSE Linux Enterprise Server 11 (Service Pack 1) EM64T/AMD64 Processors Kernel 2.6.32.12-0.7.1-xen	Fibre Channel	QLogic	8.03.01.06.11.1-k8	B	B	B
			8.03.01.08.11.1-k8	B, 63	B, 63	B, 63
			8.03.07.13.11.1-k			
			8.03.04.14.11.1-k0			
		Emulex	8.3.5.8.1p			
			8.3.5.8.2p	64	64	64
		Brocade	2.3.0.0	B	B	B
	Fibre Channel over Ethernet	Brocade	2.3.0.0	B	B	B
		QLogic	8.03.04.14.11.1-k0			
		Emulex	8.3.5.35			
SUSE Linux Enterprise Server 11 (Service Pack 2) IA32 / x86 Processors Kernel 3.0.13-0.27-default 3.0.13-0.27-pae	Fibre Channel	QLogic	8.03.07.07-k	B, 26	B, 26	B, 26
		Emulex	8.3.5.48.2p	26, 65	26, 65	26, 65
	ISCSI HBACNA	Novell	Bundle	65, 66, 67	65, 66, 67	65, 66, 67
SUSE Linux Enterprise Server 11 (Service Pack 2) Itanium / IA64 Processors Kernel 3.0.13-0.27-default	Fibre Channel	QLogic	8.03.07.07-k	B, 26	B, 26	B, 26
		Emulex	8.3.5.48.2p	26, 65	26, 65	26, 65
	ISCSI HBACNA	Novell	Bundle	65, 66, 67	65, 66, 67	65, 66, 67
SUSE Linux Enterprise Server 11 (Service Pack 2) EM64T/AMD64 Processors Kernel 3.0.13-0.27-default	Fibre Channel	QLogic	8.03.07.07-k	B, 26	B, 26	B, 26
		Emulex	8.3.5.48.2p	26, 65	26, 65	26, 65
	ISCSI HBACNA	Novell	Bundle	65, 66, 67	65, 66, 67	65, 66, 67
SUSE Linux Enterprise Server 11 (Service Pack 3) IA32 / x86 Processors Kernel 3.0.76-0.11-default 3.0.76-0.11-pae	Fibre Channel	QLogic	8.04.00.13.11.3-k			B, 26
		Emulex	8.3.7.10.6p			26, 65
	ISCSI HBACNA	Novell	Bundle			65, 66, 67

SUSE Linux Enterprise Server 11 (Service Pack 3) Itanium / IA64 Processors Kernel 3.0.76-0.11-default	Fibre Channel	QLogic	8.04.00.13.11.3-k			B, 26
		Emulex	8.3.7.10.6p			26, 65
SUSE Linux Enterprise Server 11 (Service Pack 3) EM64T/AMD64 Processors Kernel 3.0.76-0.11-default	Fibre Channel	QLogic	8.04.00.13.11.3-k			B, 26
		Emulex	8.3.7.10.6p			26, 65
	iSCSI HBA/CNA	Novell	Bundle			65, 66, 67

Supported	
Not Supported	

Notes	
B	SAN boot is supported.
26	XEN is not supported.
46	Bundled with SUSE Linux ES 10 (kernel 2.6.16.21-08-defaults/2.6.16.21-08-smp/2.6.16.21-08-bigsmmp).
51	Bundled with SUSE Linux ES 10 (Kernel 2.6.16.27-0.9-defaults/2.6.16.27-0.9-smp/2.6.16.27-0.9-bigsmmp).
60	The settings of these drivers are failover. If you want to change the setting of failover to invalid, set the following in /etc/modprobe.conf file.
61	All drivers applied to Hitachi HBA cards for Hitachi Compute Blade are supported.
62	The default setting of these drivers is "Failover". If you want to change the setting to "Disable", set the following in the /etc/modprobe.conf file: options qla2xxx ql2xfailover=0
63	Supported by kernel 2.6.32.24-0.2.1 or later.
64	Supported by kernel 2.6.32.36-0.5.2 or later.
65	Boot disk environment configurations are not supported.
66	iSCSI HBA/CNA is not supported.
67	10GbE NIC is not supported.

IMPORTANT NOTE

There are no plans to support HDLM with HP-UX 11iV3 or later because HP-UX 11iV3 has implemented its own native multipathing solution. Additionally, HP does not recommend nor support 3rd party vendor multipathing on HP-UX 11iV3 or later. All issues relating to multipathing and HP-UX 11iV3 must be discussed directly with HP.

Hewlett-Packard HP-UX			HDLM Version		
			6.0.0	6.1.0	6.5.0
Product Modifications and Additional Functions	Manual Fail Over				
	Manual Fail Back				
	Automatic Fail Over				
	Automatic Fail Back				
	Load balance (Round Robin)				
	Load balance (Extended Round Robin)				
	Load Balance (Least I/O)				
	Load Balance (Extended Least I/O)				
	Load Balance (Least Blocks)				
	Load Balance (Extended Least Blocks)				
	Load balance under Serviceguard(MC/SG)				
	Automatic Discovery				
	Error Log				
	CLI				
	GUI				
	GUI browser				
	Path Blockade				
	Health check				
	Health check Time				
	Online(E)				
	Integration with HDvM				
	Dynamic Reconfiguration (Adding LU)				
	Offline for each HBA(CLI)				
	Target Side Failover				
	HMDE Support		1	1	1
	Boot Disk				
	Upgrade install				
	Service Pack				
	HBA hot swap				
	Internationalization Environment				
	Support for LUN256 or Higher				
	HP Integrity Virtual Machines (IVM)		10	10	10
	Audit Log				
	HDLM Component Install Utility				
	The function of displaying WWN of a HBA port				
	online/offline path by SCSI device name				
Supported Storage	Storage Subsystem	Interface	Microcode version		
	Hitachi Lightning 9900V	Fibre Channel	21-01-25-XX/XX or later		
	Hitachi Universal Storage Platform V	Fibre Channel	60-01-XX-XX/XX or later		
	Hitachi Universal Storage Platform VM	Fibre Channel	60-01-61-XX/XX or later		
	Hitachi Universal Storage Platform	Fibre Channel	50-01-19-XX/XX or later		
	Hitachi Virtual Storage Platform	Fibre Channel	70-01-00-XX/XX or later		
	Hitachi Unified Storage VM	Fibre Channel	73-01-0X-XX/XX or later		
	Hitachi Network Storage Controller NSC55	Fibre Channel	50-03-94-XX/XX or later		
	Hitachi Thunder 9530V	Fibre Channel	0651/D or later		
	Hitachi Thunder 9570V	Fibre Channel	0651/D or later		
	Hitachi Thunder 9580V	Fibre Channel	1654/A or later		
	Hitachi Workgroup Modular Storage WMS100	Fibre Channel	0720/A or later		
	Hitachi Adaptable Modular Storage AMS200	Fibre Channel	0712/A or later		
	Hitachi Adaptable Modular Storage AMS500	Fibre Channel	0712/A or later		
	Hitachi Adaptable Modular Storage AMS1000	Fibre Channel	0712/A or later		
	Hitachi Adaptable Modular Storage AMS2100	Fibre Channel	0832/E or later		
	Hitachi Adaptable Modular Storage AMS2300	Fibre Channel	0832/E or later		
	Hitachi Adaptable Modular Storage AMS2500	Fibre Channel	0832/E or later		
	SMS 100	Fibre Channel	1810/N or later		
Exclusive Products	Hitachi Path Manager		11	11	11
	VxVM-DMP		11	11	11
	PV-Link(AltLink) (HP-UX bundled)		12	12	12
	PowerPath				
	SDD				
HP StorageWorks Secure Path					

Supported	
Not Supported	

Notes	
1	The prerequisite OS is HP-UX11i v1 or HP-UX11i v2 (IPF).
10	HP Integrity Virtual Machines (abbreviated hereafter to IVM) is only supported in configurations that meet all of the following conditions: - HDLM is installed only on the host OS. - Only HP-UX 11iV2 is installed on the guest OS. Additionally, the following configurations and IVM commands are not supported: - Any cluster running on the Host OS - The hpvmigrate command
11	This product is mutually exclusive with HDLM.
12	HDLM and other path management software may be able to coexist if they manage respective storages. Please contact appropriate person in HDS.

IMPORTANT NOTE

There are no plans to support HDLM with HP-UX 11iV3 or later because HP-UX 11iV3 has implemented its own native multipathing solution. Additionally, HP does not recommend nor support 3rd party vendor multipathing on HP-UX 11iV3 or later. All issues relating to multipathing and HP-UX 11iV3 must be discussed directly with HP.

HDLM is dependent only on the driver version, not the HBA model. For this reason, specific HBA models are no longer listed, just driver versions. So if the HBA driver version is supported, then HDLM is supported. This also means that OEM versions are supported, as long as the driver is supported.

HP-UX 11i V1.0					HDLM Version		
	HBA		Bus	Driver	6.0.0	6.1.0	6.5.0
HP-UX 11i V1.0	Fibre Channel	HP	PCI	HP-UX Bundle			

Supported	
Not Supported	

HP-UX 11i V2 (PA-RISC and Itanium / IA64)					HDLM Version		
OS	HBA		Bus	Driver	6.0.0	6.1.0	6.5.0
HP-UX 11i V2 (PA-RISC and Itanium / IA64) Sep 2004, May 2005, Dec 2005, March 2006, June 2006, Sep 2006, June 2007, December 2007, June 2008	Fibre Channel	HP	PCI	HP-UX Bundle			

Supported	
Not Supported	

IMPORTANT NOTE

There are no plans to support HDLM with HP-UX 11iV3 or later because HP-UX 11iV3 has implemented its own native multipathing solution. Additionally, HP does not recommend nor support 3rd party vendor multipathing on HP-UX 11iV3 or later. All issues relating to multipathing and HP-UX 11iV3 must be discussed directly with HP.

HP-UX 11iV2 IVM Support				
Release	IVM Version	HDLM Version		
		6.0.0	6.1.0	6.5.0
May 2005 December 2005 March 2006 June 2006	2.0	1	1	1
September 2006 June 2007	2.0	1	1	1
December 2007 June 2008	3.0	1	1	1
December 2007 June 2008	3.5	1	1	1

Supported	
Not Supported	

Notes	
1	HP Integrity Virtual Machines (abbreviated hereafter to IVM) are supported only in configurations that meet all of the following conditions: - Configurations that have HDLM installed only on the host OS - Configurations that use HP-UX 11i V2 only on the guest OS Additionally, the following configurations and IVM commands are not supported: - Any cluster running on the Host OS - The hpvmigrate command

IBM AIX		HDLM Version		
		7.4.2	7.5.0	7.6.0
Product Modifications and Additional Functions	Manual Fail Over			
	Manual Fail Back			
	Automatic Fail Over			
	Automatic Fail Back			
	Load balance (Round Robin)			
	Load balance (Extended Round Robin)			
	Load Balance (Least I/O)			
	Load Balance (Extended Least I/O)			
	Load Balance (Least Blocks)			
	Load Balance (Extended Least Blocks)			
	Load balance under HACMP			
	Support Persistent Group Reserve			
	Automatic Discovery			
	Error Log			
	CLI			
	Path Blockade			
	Health check			
	Health check Time (1min to 24 hr)			
	Online(E)			
	Dynamic Reconfiguration			
	Offline for each HBA(CLI)			
	Target Side Failover			
	HMDE support			
	Boot Disk	14,25, 27	14,25, 27	14,25,2 7
	Long time failover			
	Upgrade install	22,23	22,23	22,23
	Service Pack			
	HBA hot swap			
	Dynamic Tracking			
	Virtual I/O	5	5	5
	internationalization environment			
	Silent Install Utility			
	PGR Reset Utility			
	Installation Configuration support utility			
	Support for unique_id Attribute			
	Support for LUN256 or Higher			
	Per LU Reservation Facility	21	21	21
	iostat Command Support			
	Unattended Installation & Configuration			
	Audit Log			
	HDLM Component Install Utility			
	MPIO Device	21	21	21
	The function of displaying WWN of a HBA port			
	HDLM Restoration Support Utility			
	online/offline by host device name and OS management path ID.			
	High Availability Manager (HAM limited support)	44	44	
	Priority of switching destination paths			
	Update installations of HDLM on alternate disk.			
	nimadm support			
	HDLM 6.4.0 and later will retry the I/O that had a			
	rendev command support			
	Dynamic I/O Path Control	43	43	43
	Specifying the number of times the same path can be used for I/O			
	Update installations of HDLM by multibos command.			
	reserve_policy=PR_shared support	3	3	3
	system backup by mkcd/mkdvcd/backupios command in boot disk			
	HDLM log output to OS error log			

	Storage Subsystem	Interface	Microcode version			
Supported Storage	Hitachi Lightning 9900V	Fibre Channel	21-02-21-XX/XX or later	6	6	6
	Hitachi Universal Storage Platform V	Fibre Channel	60-01-XX-XX/XX or later	6	6	6
	Hitachi Universal Storage Platform VM	Fibre Channel	60-01-61-XX/XX or later	6	6	6
	Hitachi Virtual Storage Platform	Fibre Channel	70-01-00-XX/XX or later	6	6	6
	Hitachi Virtual Storage Platform over Ethernet	Fibre Channel	70-02-5X-XX/XX or later	6	6	6
	Hitachi Unified Storage VM	Fibre Channel	73-01-0X-XX/XX or later			
	Hitachi Universal Storage Platform	Fibre Channel	50-01-19-XX/XX or later	6	6	6
	Hitachi Network Storage Controller NSC55	Fibre Channel	50-03-94-XX/XX or later	6	6	6
	Hitachi Thunder 9530V	Fibre Channel	0651/D or later			
	Hitachi Thunder 9570V	Fibre Channel	0651/D or later			
	Hitachi Thunder 9580V	Fibre Channel	1654/A or later	7	7	7
	Hitachi Adaptable Modular Storage AMS200	Fibre Channel	0712/A or later	8	8	8
	Hitachi Adaptable Modular Storage AMS500	Fibre Channel	0712/A or later	8	8	8
	Hitachi Adaptable Modular Storage AMS1000	Fibre Channel	0712/A or later	8	8	8
	Hitachi Adaptable Modular Storage AMS2100	Fibre Channel	0832/E or later	9	9	9
	Hitachi Adaptable Modular Storage AMS2300	Fibre Channel	0832/E or later	9	9	9
	Hitachi Adaptable Modular Storage AMS2500	Fibre Channel	0832/E or later	9	9	9
	Hitachi Unified Storage 110	Fibre Channel	0915/A or later	9	9	9
	Hitachi Unified Storage 130	Fibre Channel	0915/A or later	9	9	9
	Hitachi Unified Storage 150	Fibre Channel	0915/A or later	9	9	9
	Hitachi Workgroup Modular Storage WMS100	Fibre Channel	0720/A or later	8	8	8
	SMS 100	Fibre Channel	1810/N or later	9	9	9
	HP StorageWorks XP128 Disk Array	Fibre Channel	21-01-24-XX/XX or later	6	6	6
	HP StorageWorks XP1024 Disk Array	Fibre Channel	21-01-24-XX/XX or later	6	6	6
	HP StorageWorks XP10000 Disk Array	Fibre Channel	50-03-94-XX/XX or later	6	6	6
	HP StorageWorks XP12000 Disk Array	Fibre Channel	50-01-19-XX/XX or later	6	6	6
	HP StorageWorks XP20000 Disk Array	Fibre Channel	60-01-61-XX/XX or later	6	6	6
	HP StorageWorks XP24000 Disk Array	Fibre Channel	60-01-XX-XX/XX or later	6	6	6
	HP StorageWorks P9500 Disk Array	Fibre Channel	70-01-00-XX/XX or later	6	6	6
	HP StorageWorks P9500 Disk Array	Fibre Channel over Ethernet	70-02-5X-XX/XX or later	6	6	6
	SVS	Fibre Channel	50-07-01-XX/XX or later	6	6	6
Exclusive Products	Hitachi Path Manager			28	28	28
	AutoPath			28	28	28
	VxVM-DMP			29	29	29
	PowerPath			34,35,36	34,35,36	34,35,36
	SDD			33	33	33
	RDAC			29	29	29
	AIX 5.1 ML00 or earlier bundle MPIO			1	1	1
	AIX 5.2 ML01 or later bundle MPIO			28	28	28
	HTC_MPIO_ODM			28	28	28
	XP_MPIO_ODM			28	28	28
	HTC_MPIO_Modular_ODM			28	28	28
	Other path management product which corresponds to MPIO			1	1	1
				Supported		
				Not Supported		

Notes	
1	HBA FC-port sharing is supported in OS bundled MPIO or SDD-PCM. HBA FC-port sharing is not supported in path management products other than OS bundled MPIO and SDD-PCM.
3	Required hardware: Storage System: VSP, P9500 Microcode Version: 70-04-30-XX/XX or later
5	i5/OS and Linux on Power can be used as virtual I/O clients. For details, contact IBM.
6	Select Host Mode Option 2.
7	Set the Host Mode Option [Persistent RSV Cluster Mode] ON.
8	Set the Host Mode Option [Unique Reserve Mode 1] ON.
9	When using simple settings in the Edit Host Group window, select [VCS] from the [Middleware] pulldown menu. When using additional settings in the Edit Host Group window, select the [Unique Reserve Mode 1] check box.
14	Confirm the storage support status with appropriate person in HDS for Storage Systems support status.
21	Use HTC-ODM version 5.0.52.1 or later if you are using any of the following storage systems: - Hitachi AMS2000/AMS/WMS/SMS series - Hitachi USP (excluding the HP XP series) - Lightning 9900V series (excluding the HP XP series) - Thunder 9500V series - Universal Storage Platform V/VM (excluding HP XP20000 and HP XP24000) - Hitachi Virtual Storage Platform (excluding P9500) - HUS100 - HUS VM Use XP-ODM version 5.0.52.1 or later if you are using any of the following storage systems: - HP XP series - P9500
22	An update cannot be performed if the currently installed version of HDLM is 5.8.1 or earlier.
23	You can use the alt_disk_copy and nim commands to perform HDLM upgrade installation to alternate disks.
25	Boot disks that use virtual SCSI disks in a virtual I/O client partition can be managed by HDLM in a virtual I/O server partition.
27	Boot disks that use virtual HBA through the NPIV functionality in a virtual I/O client partition can be managed by HDLM in a virtual I/O client partition.
28	This product is mutually exclusive with HDLM.
29	HDLM and other path management software may be able to coexist if they manage respective storages. Please contact appropriate person in HDS.
33	Coexistence with SDD is possible. However, storage managed by SDD and storage managed by HDLM are only supported in configurations that are connected by using a different instance of HBA or a separate switch.
34	You cannot share HBAs used by HDLM.
35	Applies to PowerPath 4.5.3 and later.
36	Before introducing HDLM, remove storage devices of Hitachi products from PowerPath management.
43	Microprogram version 08B8/D or later is required for using Dynamic I/O Path Control on Hitachi AMS2000 series/Hitachi SMS series.
44	Supported with some conditions customer-by-customer basis (SUI 044226). Please contact appropriate person in HDS.

IMPORTANT NOTE

HDLM is dependent only on the driver version, not the HBA model. For this reason, specific HBA models are no longer listed, just driver versions. So if the HBA driver version is supported, then HDLM is supported. This also means that OEM versions are supported, as long as the driver is supported.

AIX 5.3					HDLM Version		
OS	HBA/CNA			Driver	7.4.2	7.5.0	7.6.0
AIX 5.3	Fibre Channel	IBM	-	AIX Bundle			
		Qlogic	QMC 2472	AIX Bundle	8	8	8
	Fibre Channel over Ethernet	IBM	FC5708	AIX Bundle			

Supported	
Not Supported	

Notes

8) HBA hot swap is not supported for this HBA because this HBA does not support hot plug.

AIX 6.1					HDLM Version		
OS	HBA/CNA			Driver	7.4.2	7.5.0	7.6.0
AIX 6.1	Fibre Channel	IBM	-	AIX Bundle			
		Qlogic	QMI2472	AIX Bundle	8	8	8
	Fibre Channel over Ethernet	IBM	FC5708	AIX Bundle			

Supported	
Not Supported	

Notes

8) HBA hot swap is not supported for this HBA because this HBA does not support hot plug.

AIX 7.1					HDLM Version		
OS	HBA/CNA			Driver	7.4.2	7.5.0	7.6.0
AIX 7.1	Fibre Channel	IBM	-	AIX Bundle			
		Qlogic	QMI2472	AIX Bundle	8	8	8
	Fibre Channel over Ethernet	IBM	FC5708	AIX Bundle			

Supported	
Not Supported	

Notes

8) HBA hot swap is not supported for this HBA because this HBA does not support hot plug.

AIX Maintenance Levels				
OS		HDLN Version		
Version	ML	7.4.2	7.5.0	7.6.0
5.3	TL04	1	1	1
	TL05	1	1	1
	TL06	SP9 or later are supported	SP9 or later are supported	SP9 or later are supported
	TL07	SP6 or later are supported	SP6 or later are supported	SP6 or later are supported
	TL08	APAR IZ43371	APAR IZ43371	APAR IZ43371
	TL09	SP2 + APAR IZ42658	SP2 + APAR IZ42658	SP2 + APAR IZ42658
	TL10	SP1 or later are supported	SP1 or later are supported	SP1 or later are supported
	TL11	2	2	2
	TL12	SP1 or later are supported	SP1 or later are supported	SP1 or later are supported
6.1	No TL	SP1 + APAR IZ11722	SP1 + APAR IZ11722	SP1 + APAR IZ11722
	TL01	APAR IZ42661	APAR IZ42661	APAR IZ42661
	TL02	SP2 + APAR IZ42662	SP2 + APAR IZ42662	SP2 + APAR IZ42662
	TL03	SP1 or later are supported	SP1 or later are supported	SP1 or later are supported
	TL04	2	2	2
	TL05	SP1 or later are supported	SP1 or later are supported	SP1 or later are supported
	TL06			
	TL07			
	TL08	SP1 or later are supported	SP1 or later are supported	SP1 or later are supported
7.1	No TL			
	TL01			
	TL02	SP1 or later are supported	SP1 or later are supported	SP1 or later are supported

Supported	
Not Supported	

Notes	
All SPs are supported unless otherwise specified.	
SPx or later are supported.	Apply specified SP or later version.
SP1 + APAR IZ11722	You must apply SP1 (or later) and the APAR to the left is required.
1	Apply a patch equivalent to APAR IX06210 for AIX5.3 TL04 or TL05, because there is a possibility of a kernel panic due to OS failure. According to the IBM support policy (http://www14.software.ibm.com/webapp/set2/sas/f/best/AIX5Lrel-svc-strat-chngs2007.pdf), patches equivalent to APAR IZ06210 for AIX 5.3 TL04 or TL05 are not currently provided to the public. Request such patches from IBM directly. This technology level is supported if a patch equivalent to APAR IZ06210 for AIX5.3 TL04 or TL05 is applied.
APAR IZ43371	Apply APAR IZ43371. You might have to request this of IBM directly if it is not publicly available. All SPs are supported
APAR IZ42661	Apply APAR IZ42661. You might have to request this of IBM directly if it is not publicly available. All SPs are supported
SP2 + APAR IZ42658	Install Service Pack 2 (or a later version) and APAR.
SP2 + APAR IZ42662	Install Service Pack 2 (or a later version) and APAR.
2	When using a boot disk environment that uses any model of the Thunder 9500V series, Hitachi AMS2000/AMS/TMS/WMS/SMS series, or HUS100 series, you must apply SP2 or later.

AIX VIO Support							
Operating System		VIO Version	Cluster		HDL Version		
Name	Version		Name	Version	7.4.2	7.5.0	7.6.0
AIX	5.3	2.1.0.0	No Cluster		11	11	11
			HACMP/PowerHA	5.5			
				6.1	11	11	11
		2.1.0.10	No Cluster		11,12	11,12	11,12
			HACMP/PowerHA	5.5			
				6.1	11,12	11,12	11,12
		2.1.1.10	No Cluster		12	12	12
			HACMP/PowerHA	5.5			
				6.1	12	12	12
		2.1.2.xx	No Cluster		12,17	12,17	12,17
			HACMP/PowerHA	5.5			
				6.1	12,17	12,17	12,17
		2.1.3.xx	No Cluster		12	12	12
			HACMP/PowerHA	6.1	12	12	12
					12	12	12
		2.2.0.xx	No Cluster		12	12	12
			HACMP/PowerHA	5.5			
				6.1	12	12	12
		2.2.1.xx	No Cluster		12	12	12
			HACMP/PowerHA	5.5			
				6.1	12	12	12
		2.2.2.xx	No Cluster		12	12	12
			HACMP/PowerHA	6.1	12	12	12
					12	12	12
	6.1	2.1.0.0	No Cluster		11	11	11
				5.5			
			HACMP/PowerHA	6.1	11	11	11
				7.1	11	11	11
				7.1.1/7.1.2	11	11	11
		2.1.0.10	No Cluster		11,12	11,12	11,12
				5.5			
			HACMP/PowerHA	6.1	11,12	11,12	11,12
				7.1	11	11	11
				7.1.1/7.1.2	11	11	11
		2.1.1.10	No Cluster		12	12	12
				5.5			
			HACMP/PowerHA	6.1	12	12	12
				7.1	12	12	12
				7.1.1/7.1.2	12	12	12
		2.1.2.xx	No Cluster		12,17	12,17	12,17
				5.5			
			HACMP/PowerHA	6.1	12,17	12,17	12,17
				7.1	12,17	12,17	12,17
				7.1.1/7.1.2	12,17	12,17	12,17
		2.1.3.xx	VCS	5.1	12,17	12,17	12,17
			No Cluster		12	12	12
				5.5			
			HACMP/PowerHA	6.1	12	12	12
				7.1	12	12	12
		2.2.0.xx	No Cluster		12	12	12
				5.5			
			HACMP/PowerHA	6.1	12	12	12
				7.1	12	12	12
				7.1.1/7.1.2	12	12	12
		2.2.1.xx	No Cluster		12	12	12
				5.5			
			HACMP/PowerHA	6.1	12	12	12
				7.1	12	12	12
				7.1.1/7.1.2	12	12	12
		2.2.2.xx	No Cluster		12	12	12
				5.5			
			HACMP/PowerHA	6.1	12	12	12
				7.1	12	12	12
				7.1.1/7.1.2	12	12	12
	7.1	2.1.0.0	No Cluster		11	11	11
				5.5			
			HACMP/PowerHA	6.1	11	11	11
				7.1	11	11	11
				7.1.1/7.1.2	11	11	11
		2.1.0.10	No Cluster		11,12	11,12	11,12
				5.5			
			HACMP/PowerHA	6.1	11,12	11,12	11,12
				7.1	11,12	11,12	11,12
				7.1.1/7.1.2	11,12	11,12	11,12
		2.1.1.10	No Cluster		12	12	12
				5.5			
			HACMP/PowerHA	6.1	12	12	12
				7.1	12	12	12
				7.1.1/7.1.2	12	12	12
		2.1.2.xx	No Cluster		12,17	12,17	12,17
				5.5			
			HACMP/PowerHA	6.1	12,17	12,17	12,17
				7.1	12,17	12,17	12,17
				7.1.1/7.1.2	12,17	12,17	12,17
		2.1.3.xx	No Cluster		12	12	12
				5.5			
			HACMP/PowerHA	6.1	12	12	12
				7.1	12	12	12
				7.1.1/7.1.2	12	12	12

		2.2.0.xx	No Cluster		12	12	12
			5.5				
			HACMP/ PowerHA	6.1	12	12	12
				7.1	12	12	12
				7.1.1/7.1.2	12	12	12
		2.2.1.xx	No Cluster		12	12	12
			5.5				
			HACMP/ PowerHA	6.1	12	12	12
				7.1	12	12	12
				7.1.1/7.1.2	12	12	12
		2.2.2.xx	No Cluster		12	12	12
			6.1		12	12	12
			HACMP/ PowerHA	7.1	12	12	12
				7.1.1/7.1.2	12	12	12

Supported	
Not Supported	

Notes	
In environments that do not use the VIOS NPIV functionality, use of HDLM in a client partition is not supported. Use HDLM only in a server partition.	
HDLM supports the IBM PowerVM Live Partition Mobility functionality.	
11	Apply APAR IZ42662.
12	When using the ioslevel NPIV (N-Port ID Virtualization) functionality, HDLM can be installed to a client partition, and can manage paths by using virtual Fibre Channel from the client partition. In this case, the procedures for using HDLM are the same as for using HDLM in a local boot disk environment where a virtual I/O server is not used.
17	When using a boot disk environment that uses any model of the Thunder 9500V series, the Hitachi AMS2000/AMS/WMS/SMS series, or the HUS100 series, you must use VIO version 2.1.2.12 or later.

Supported AIX GPFS and Cluster Configurations				
AIX	GPFS	HDL M Version		
		7.4.2	7.5.0	7.6.0
5.3	3.3	4,5	4,5	4,5
	3.4	4	4	4
6.1	3.3	4,5	4,5	4,5
	3.4	4	4	4
	3.5			
7.1	3.4	4	4	4
	3.5			

Supported	
Not Supported	

Notes	
4	Set the NSD option [usePersistentReserve] to "no".
5	GPFS 3.3.0.3 or later is required.

VMware vSphere ESXi			HDLM Version		
			7.4.1	7.5.0	7.6.0
Product Modifications and Additional Functions	Remote Management Client	Windows	7	7	7
	CLI				
	Manual Fail Over (CLI)	HBA port WWN designation per CHA			
	Manual Fail Back (CLI)	HBA port WWN designation per CHA			
	Automatic Fail Over				
	Automatic Fail Back		1, 2	1, 2	1, 2
	Health Check		1, 2	1, 2	1, 2
	Path Blockade				
	Target Side Failover				
	Load Balance (Round Robin)		3	3	3
	Load Balance (Extended Round Robin)				
	Load Balance (Extended Least I/O)				
	Load Balance (Extended Least Blocks)				
	Automatic Discovery				
	Dynamic Reconfiguration (LU addition/deletion)				
	Error Log				
	Upgrade Install				
	Service Pack				
	HBA I/F	FC	5	5	5
		iSCSI	5	5	5
		FCoE	5	5	5
	Boot Disk	FC	5	5	5
		iSCSI	5	5	5
		FCoE	5	5	5
	RAID Manager Command Device				
	HBA port WWN Display				
	Combination with ESXi-bundled PSP		4	4	4
	Guest OS		6	6	6
	Combination with HGLM		12	12	12
	High Availability Manager (HAM limited support)		14	14	
	Dynamic I/O Path Control		13	13	13
	Specifying the number of times the same path can be used for I/O operations when the load balancing is used.				
Supported Storage	Storage Subsystem	Interface	Microcode version		
	Hitachi Adaptable Modular Storage AMS200	Fibre Channel	0786/F or later		
		iSCSI	0786/F or later		
	Hitachi Adaptable Modular Storage AMS500	Fibre Channel	0786/F or later		
		iSCSI	0786/F or later		
	Hitachi Adaptable Modular Storage AMS1000	Fibre Channel	0786/F or later		
		iSCSI	0786/F or later		
	Hitachi Workgroup Modular Storage WMS100	Fibre Channel	0786/F or later		
		iSCSI	0786/F or later		
	Hitachi Adaptable Modular Storage AMS2100	Fibre Channel	08B3/A or later		
		iSCSI	08B3/A or later		
	Hitachi Adaptable Modular Storage AMS2300	Fibre Channel	08B3/A or later		
		iSCSI	08B3/A or later		
	Hitachi Adaptable Modular Storage AMS2500	Fibre Channel	08B3/A or later		
		iSCSI	08B3/A or later		
	Hitachi Unified Storage 110	Fibre Channel	0915/A or later		
	Hitachi Unified Storage 130	Fibre Channel	0915/A or later		
	Hitachi Unified Storage 150	Fibre Channel	0915/A or later		
	SMS 100	Fibre Channel	08B3/A or later		
	Hitachi Universal Storage Platform V	Fibre Channel	60-08-xx or later		
Exclud sive Prod ucts	Hitachi Universal Storage Platform VM	Fibre Channel	60-08-xx or later		
	Hitachi Virtual Storage Platform	Fibre Channel	70-02-xx or later		
	Hitachi Unified Storage VM	Fibre Channel	73-01-0X-XX/XX or later		
	HP StorageWorks XP20000 Disk Array	Fibre Channel	60-08-xx or later		
	HP StorageWorks XP24000 Disk Array	Fibre Channel	60-08-xx or later		
	HP StorageWorks P9500 Disk Array	Fibre Channel	70-02-xx or later		
	HDLM for Windows		8	8	8
			Supported		
			Not Supported		

Notes	
1	This functionality cannot be disabled because the OS-provided functionality is used.
2	The check interval cannot be changed because the OS-provided functionality is used.
3	You can use Round Robin by setting "vmwrr" for load balancing from HDLM Remote Management Client.
4	You can use the following Path Selection Plugins (PSPs) provided by VMware: - VMW_PSP_MRU - VMW_PSP_RR
5	You can use the following HBAs and HBA drivers: - Inbox drivers for ESXi 5.0/5.1/5.5 or HBA drivers that support ESXi 5.0/5.1/5.5 as listed in the VMware Compatibility Guide. - HBAs and HBA drivers for Hitachi Compute Blade that support ESXi 5.0/5.1/5.5 as listed in the VMware Compatibility Guide.
6	Contact VMware for details about the supported guest OSs. Note that precautions related to NMP also apply to HDLM environments.
7	For VMware, a remote management client, separate from ESXi 5.0/5.1/5.5 that is connected to storage, is required for CLI multipath management. The following OS versions can be used for remote management clients: - Windows Vista Enterprise SP1 32-bit and 64-bit - Windows 2008 64-bit (No SP or SP2) - Windows 2008 R2 SP1 - Windows 7 32-bit and 64-bit (No SP or SP1)
8	Do not install HDLM for Windows on a host that is used as a remote management client for HDLM for VMware.
12	To link with HGLM, use an OS other than Windows Vista for the remote management client.
13	Microprogram version 08B8/D or later is required for using Dynamic I/O Path Control on Hitachi AMS2000 series/Hitachi SMS series.
14	Supported with some conditions customer-by-customer basis (SUI 044226). Please contact appropriate person in HDS.

Supported JRE Versions

Windows					
Version	Architecture	JRE Version	HDLN Version		
			7.4.1	7.5.0	7.6.0
Windows 2003	IA32 / x86	1.4.2_13			
		5.0_10			
		5.0_11			
		6.0_04			
		6.0_17			
	Itanium / IA64	1.4.2_13			
		5.0_11			
		6.0_04			
		6.0_17			
		6.0_17			
Windows 2003 SP1	IA32 / x86	1.4.2_13			
		5.0_10			
		5.0_11			
		6.0_04			
		6.0_17			
	Itanium / IA64	1.4.2_13			
		5.0_11			
		6.0_04			
		6.0_17			
		6.0_17			
	x64 / x86_64	1.4.2_13			
		5.0_10			
		5.0_11			
		6.0_04			
		6.0_17			
Windows 2003 SP2	IA32 / x86	1.4.2_13			
		5.0_10			
		5.0_11			
		6.0_04			
		6.0_17			
	Itanium / IA64	1.4.2_13			
		5.0_11			
		6.0_04			
		6.0_17			
		6.0_17			
	x64 / x86_64	1.4.2_13			
		5.0_10			
		5.0_11			
		6.0_04			
		6.0_17			
Windows 2003 R2 and R2 SP2	IA32 / x86	1.4.2_13			
		5.0_10			
		5.0_11			
		6.0_04			
		6.0_17			
	x64 / x86_64	1.4.2_13			
		5.0_10			
		5.0_11			
		6.0_04			
		6.0_17			
Windows 2008	IA32 / x86	5.0_11			
		6.0_17			
	Itanium / IA64	5.0_11			
		6.0_17			
	x64 / x86_64	5.0_11			
		6.0_17			
Windows 2008 SP2	IA32 / x86	5.0_11			
		6.0_17			
	Itanium / IA64	5.0_11			
		6.0_17			
	x64 / x86_64	5.0_11			
		6.0_17			
		7.0_01			
		7.0_01			
Windows 2008 R2	x64 / x86_64	5.0_11			
		6.0_17			
	Itanium / IA64	5.0_11			
		6.0_17			
Windows 2008 R2 SP1	x64 / x86_64	5.0_11			
		7.0_01			
Windows 2012	x64 / x86_64	5.0_11			
		5.0_11			

Supported

Not Supported

Solaris					
Version	Architecture	JRE Version	HDLN Version		
			7.4.1	7.5.0	7.6.0
8, 9	SPARC	1.4.2_15 or later	11,12	11,12	11,12
		5.0_11 or later	11,12	11,12	11,12
		6.0_17 or later	11,12	11,12	11,12
10	SPARC	1.4.2_15 or later	11,12	11,12	11,12
		5.0_11 or later	11,12	11,12	11,12
		6.0_17 or later	11,12	11,12	11,12
		7.0 or later	11,12	11,12	11,12
11, 11.1	SPARC	6.0_17 or later	11,12	11,12	11,12
		7.0 or later	11,12	11,12	11,12
Supported					
Not Supported					
Notes					
11 Required for the HDLM Advanced functionality					
12 Only the 32-bit version is supported.					

AIX					
Version	Architecture	JRE Version	HDL M Version		
			7.4.1	7.5.0	7.6.0
5.3	POWER	1.4.2_08(build ca142-20070317) or later	11,12	11,12	11,12
		5.0_05(build pap32dev-20070511) or later	11,12	11,12	11,12
		6.0_8FP1(build pap3260sr8fp1-20100624_01) or later	11,12	11,12	11,12
6.1	POWER	1.4.2_08(build ca142-20070317) or later	11,12	11,12	11,12
		5.0_05(build pap32dev-20070511) or later	11,12	11,12	11,12
		6.0_8FP1(build pap3260sr8fp1-20100624_01) or later	11,12	11,12	11,12
		7 32-bit (build pap3270-20110827_01) or later	11,12	11,12	11,12
7.1	POWER	1.4.2_08(build ca142-20070317) or later	11,12	11,12	11,12
		5.0_05(build pap32dev-20070511) or later	11,12	11,12	11,12
		6.0_8FP1(build pap3260sr8fp1-20100624_01) or later	11,12	11,12	11,12
		7 32-bit (build pap3270-20110827_01) or later	11,12	11,12	11,12
			Supported		
			Not Supported		
Notes					
11 Required for the HDLM Advanced functionality					
12 Only the 32-bit version is supported.					

HP-UX					
OS	Architecture	JRE Version	HDLM Version		
			6.0.0	6.1.0	6.5.0
11iV1	PA-RISC	1.4.2_17 or later	11	11	11
		5.0_11 or later	11	11	11
		6.0_17 or later			11
11iV2 Sept. 2004 May 2005 Dec. 2005 Mar. 2006 June 2006 Sept. 2006 June 2007 Dec. 2007 June 2008	PA-RISC and Itanium	1.4.2_17 or later	11	11	11
		5.0_11 or later	11	11	11
		6.0_17 or later			11
			Supported		
			Not Supported		
Notes					
11 Required for the HDLM Advanced functionality					

Supported Cluster Configurations and Volume Managers								
Operating System		Cluster		Volume Manager	HDL			
					7.4.1	7.5.0	7.6.0	
Windows Server 2003	IA32 / x86	No Cluster	No VM					
			Symantec VxVM	4.0				
				4.1				
				4.2				
		MSCS	No VM					
			Symantec VxVM	4.0				
				4.1				
				4.2				
		Symantec VCS	4.1					
			4.2					
			4.3					
				4.3				
Itanium / IA64	No Cluster	No VM						
	MSCS	No VM						
	No Cluster	No VM						
	Symantec VxVM	4.3						
	MSCS	No VM						
	Symantec VxVM	4.3						
Windows 2003 Service Pack 1	IA32 / x86	No Cluster	No VM					
			MSCS	No VM				
			Symantec VxVM	4.3				
			Symantec VxVM	4.3	65	65	65	
		Symantec VCS	4.3					
			5.0					
			6.1.2	No VM				
			7.0	No VM				
		LifeKeeper	No VM					
			No VM					
			No VM					
			No VM					
Itanium / IA64	No Cluster	No VM						
	MSCS	No VM						
	Symantec VxVM	5.0						
	No Cluster	No VM						
	MSCS	No VM						
	Symantec VxVM	4.3						
Windows 2003 Service Pack 2	IA32 / x86	No Cluster	No VM					
			Symantec VxVM	4.3	65	65	65	
			Symantec VxVM	4.3				
			Symantec VxVM	4.3	65	65	65	
		Symantec VCS	4.3					
			5.0					
			6.1.2	No VM				
			7.0	No VM				
		LifeKeeper	No VM					
			No VM					
			No VM					
			No VM					
Itanium / IA64	No Cluster	No VM						
	MSCS	No VM						
	Symantec VxVM	5.0						
	No Cluster	No VM						
	MSCS	No VM						
	Symantec VxVM	4.3						
Windows 2003 R2	IA32 / x86	No Cluster	No VM					
			Symantec VxVM	4.3	65	65	65	
			Symantec VxVM	4.3				
			Symantec VxVM	4.3	65	65	65	
		Symantec VCS	4.3					
			5.0					
			6.1.2	No VM				
			7.0	No VM				
		LifeKeeper	No VM					
			No VM					
			No VM					
			No VM					
X64 / x86_64	No Cluster	No VM						
	MSCS	No VM						
	Symantec VxVM	4.3	65	65	65			
	Symantec VxVM	4.3						
	Symantec VxVM	4.3	65	65	65			
	Symantec VxVM	5.0						
Windows 2003 R2 Service Pack 2	IA32 / x86	No Cluster	No VM					
			Symantec VxVM	4.3	65	65	65	
			Symantec VxVM	4.3				
			Symantec VxVM	4.3	65	65	65	
		Symantec VCS	4.3					
			5.0					
			6.1.2	No VM				
			7.0	No VM				
		LifeKeeper	No VM					
			No VM					
			No VM					
			No VM					
X64 / x86_64	No Cluster	No VM						
	MSCS	No VM						
	Symantec VxVM	4.3						
	Symantec VxVM	4.3	65	65	65			
	Symantec VxVM	5.0						
	Symantec VxVM	5.1						
Windows 2008	IA32 / x86	No Cluster	No VM					
		MSCS	No VM					
		No Cluster	No VM					
		MSCS	No VM					
	Itanium / IA64	No Cluster	No VM					
		MSCS	No VM					
		No Cluster	No VM					
		MSCS	No VM					
	X64 / x86_64	No Cluster	No VM					
		MSCS	No VM					
		Symantec VCS	5.1	Symantec VxVM	5.1			
Windows 2008 Service Pack 2	IA32 / x86	No Cluster	No VM					
		MSCS	No VM					
		No Cluster	No VM					
		MSCS	No VM					
	Itanium / IA64	No Cluster	No VM					
		MSCS	No VM					
		No Cluster	No VM					
		MSCS	No VM					
	X64 / x86_64	No Cluster	No VM					
		MSCS	No VM					
		Symantec VCS	5.1	Symantec VxVM	5.1			
Windows 2008 R2	Itanium / IA64	No Cluster	No VM					
		MSCS	No VM					
		No Cluster	No VM					
		MSCS	No VM					
	X64 / x86_64	No Cluster	No VM					
		MSCS	No VM					
		No Cluster	No VM					
		LifeKeeper	7.0	No VM				

Windows 2008 R2 Service Pack 1	Itanium / IA64	No Cluster	No VM			
		MSCS				
	X64 / x86_64	No Cluster	No VM			
		MSCS				
Windows 2012 R2	X64 / x86_64	No Cluster	No VM			
		MSCS	No VM			
Windows 2012 R2	X64 / x86_64	No Cluster	No VM			
		MSCS	No VM			

Supported	
Not Supported	

Notes						
65 Maintenance Pack 1 (MP1) is required.						

OS	Cluster	Volume Manager	HDL		
			7.4.1	7.5.0	7.6.0
Solaris SPARC	8 (3264 kb)	No Cluster	No VM		
			SDS 4.2.1		
			Symantec VxVM 4.1		
		SunCluster	No VM		
			SDS 4.2.1		
			No VM		
			SDS 4.2.1		
			No VM		
			SDS 4.2.1		
			Symantec VxVM 4.1		
	9 (3264 kb)	No Cluster	No VM	1.2,7,14	1.2,7,14
			Symantec VxVM 5.0	1.2,7,14	1.2,7,14
			No VM		
		SunCluster	SVM	13	13
			Symantec VxVM 4.1		
			Symantec VxVM 5.0		
			No VM	12	12
			SVM	4,12	4,12
			No VM	12	12
			SVM	4,12	4,12
	10 (64 kb)	No Cluster	No VM	5,11,13	5,11,13
			Symantec VxVM 4.1		
			Symantec VxVM 5.0		
		SunCluster	No VM	18	18
			SVM	4,6,18	4,6,18
			Symantec VxVM 4.1		
			No VM	16,17	16,17
			SVM	4,6,16,18	4,6,16,18
			VxVM 5.0	16,18	16,18
			No VM	16	16
	11.1 (64 kb)	No Cluster	No VM	1.2,14,15,18,19	1.2,14,15,18,19
			Symantec VxVM 5.0	1.2,14,15,18,19	1.2,14,15,18,19
			No VM	1.2,7,14,21	1.2,7,14,21
		SunCluster	SVM	1.2,7,18	1.2,7,18
			No VM	1.2,7,18	1.2,7,18
			Symantec VxVM 6.0	1.2,7,18	1.2,7,18
			No VM	1.2,7,18	1.2,7,18
			Symantec VxVM 6.0.3	1.2,7,18	1.2,7,18
			No VM	13,18,22	13,18,22
			SVM	13,18,22	13,18,22
	11.1 (64 kb)	No Cluster	No VM	1.2,18,21	1.2,18,21
			Symantec VxVM 6.0	1.2,18,21	1.2,18,21
			No VM	1.2,18,21	1.2,18,21
		SunCluster	SVM	1.2,18,21	1.2,18,21
			No VM	1.2,18,21	1.2,18,21
			Symantec VxVM 6.0	1.2,18,21	1.2,18,21
			No VM	1.2,18,21	1.2,18,21
			Symantec VxVM 6.0.3	1.2,18,21	1.2,18,21
			No VM	1.2,18,21	1.2,18,21
			Symantec VxVM 6.0.3	1.2,18,21	1.2,18,21

Supported	
Not Supported	

Notes	
1	The functionality for linking with SFVS (Storage Foundation Volume Server) in VCS5.0 is not supported.
2	The Disk Reservation Agent functionality of VCS is not supported.
3	I/O fencing is not supported on VCS.
4	The following SVM features are not supported: - Disks with greater than 1 TB capacity - Multi-owner disk sets - Importing of disk sets - Automatic (top-down) volume creation
5	In a configuration that uses a driver other than the Oracle HBA driver (other than the qlc or emix driver), the SVM shared diskset cannot use disks managed by HDLM.
6	When the SVM shared diskset uses disks managed by HDLM in a configuration that uses a driver other than the Oracle HBA driver (other than the qlc or emix driver), use Oracle Solaris Cluster device IDs (logical device files under /dev/did/dsk). The SVM shared diskset cannot use HDLM logical device names.
7	VCS I/O fencing is supported when using the storage devices below. The failover service group is the only supported service group. Neither the parallel service group nor the hybrid service group is supported. - USPNCS/CUSP V/UOSP VM/VSP - V9500 - HP XP10000/XP12000/XP20000/XP24000/SVS/P9500 When using I/O fencing, enable [host mode option 02 (VERITAS Database Edition/Advanced Cluster)] on the storage system. When not using I/O fencing, do not enable [host mode option 02 (VERITAS Database Edition/Advanced Cluster)] on the storage system. Also, set hosts that do and do not use I/O fencing to different host groups.
9	When using I/O fencing, you must apply MP2 or later.
10	Only two-node configurations are supported. Only pathcount is supported in the SCSI protocol (fencing protocol) settings for storage devices. For details on how to configure the SCSI protocol (fencing protocol) settings for storage devices, see the Oracle Solaris Cluster documentation.
11	ZFS is not supported.
12	EFI labels are not supported.
13	The following SVM features are not supported: - Multi-owner disk sets - Importing of disk sets - Automatic (top-down) volume creation
14	There are no limits on the MP version except when using I/O fencing.
15	When using I/O fencing, you must apply MP1 or later.
16	In two-node configurations, only pathcount is supported in the SCSI protocol (fencing protocol) settings for storage devices. For details on how to configure the SCSI protocol (fencing protocol) settings for storage devices, see the Oracle Solaris Cluster documentation.
17	EFI labels and ZFS are supported in two-node configurations only.
18	EFI labels and ZFS are not supported.
19	Support VCS I/O fencing when using the following storages. Parallel service group is the only supported service group. Neither failover service group nor hybrid service group is supported. - USPNCS/CUSP V/UOSP VM - HP XP10000/XP12000/XP20000/XP24000/SVS When using the I/O fencing function, enable [host mode option 02(VERITAS Database Edition/Advanced Cluster)] on the storage. When not using the I/O fencing function, do not enable [host mode option 02(VERITAS Database Edition/Advanced Cluster)] on the storage. Also, set the host using the I/O fencing function and the host not using the I/O fencing to different host groups.
20	The following storage devices are supported: - Hitachi Adaptable Modular Storage AMS series. (Microcode version 0880/A and later) - Hitachi Universal Storage Platform V /VM (Microcode version 60-06-05-00/00 and later)
21	VCS I/O fencing is supported when using the storage device below. The failover service group is the only supported service group. Neither the parallel service group nor the hybrid service group is supported. - AMS2000 When using I/O fencing, enable [Special Reserve Mode 1] on the storage. When not using I/O fencing, do not enable [Special Reserve Mode 1] on the storage. Also, set hosts that do and do not use I/O fencing to different host groups.
22	Only "prefer3(SCSI-3)" is supported for the SCSI protocol (fencing protocol) setting of storage devices.
23	Up to 4096 LUs and up to 8192 paths are supported as HDLM management targets..

OS		Cluster	Volume Manager	HDLM			
				7.4.2	7.5.0	7.6.0	
AUX	5.3 (32/64 bit)	No Cluster		LVM or No LVM			
		HACMP/PowerHA	5.5				
			6.1	LVM			
			5.0				
		Symantec VCS	5.0.1	LVM or No LVM			
			5.0.3	1	1	1	
			5.1	1	1	1	
		6.1 (64 bit)	No Cluster		LVM or No LVM		
			HACMP/PowerHA	5.5			
	6.1						
	7.1			LVM			
	7.1.1						
	7.1.2						
	5.0.1			1	1	1	
	Symantec VCS		5.0.3	1	1	1	
			5.1				
			DB2 pureScale	2	2	2	
	10.1		2	2	2		
	7.1 (64 bit)		No Cluster		LVM or No LVM		
			HACMP/PowerHA	5.5			
				6.1			
				7.1	LVM		
				7.1.1			
				7.1.2			
				9.8	2	2	2
		DB2 pureScale	10.1	2	2	2	
		Supported					
		Not Supported					

Notes	
1	When using JFS2, when node failover is performed by using a clach (halt-q), mount-type resources might not be mounted normally in the destination node for the failover. This problem can occur with or without installing HDLM.
2	If Fast I/O Fencing is not used, use HGLM to set the LB setting of the Tie Breaker Disk to OFF.

OS		Cluster		Volume Manager		HDLM			
						6.0.0	6.1.0	6.5.0	
HP-UX	11i V1.0 PA-RISC	No Cluster		No VM					
				LVM					
		MC/ServiceGuard	A.11.13/14			1	1		
			A.11.15	LVM		1	1		
	11i V2.0 (PA-RISC and Itanium / IA64)	ServiceGuard		A.11.16					
		No Cluster		No VM					
				LVM					
		ServiceGuard	A.11.16						
	September 2004 May 2005 December 2005		A.11.17	LVM				2	
			A.11.18						
	11i V2.0 (PA-RISC and Itanium / IA64)	No Cluster		No VM					
				LVM					
		ServiceGuard	A.11.16						
			A.11.17					2	
			A.11.18						
			A.11.19						

Supported	
Not Supported	

Notes	
1	Lock disks of MC/ServiceGuard A.11.13, A.11.14, A.11.15 are not supported.
2	Only the Itanium/IA64 is supported

OS		Cluster		Volume Manager		HDLM		
						74.1	75.0	76.0
Red Hat Enterprise Linux AS/ES 3 (Update 3) IA32 / x86 Processors 2.4.21-20.EL 2.4.21-20.ELsmp 2.4.21-20.ELhugemem		No Cluster		No VM				
				LVM 1.0.3-15				
		VCS	2.2					
			4.0	No VM				
Red Hat Enterprise Linux AS/ES 3 (Update 5 + Security Fix) IA32 / x86 Processors 2.4.21-32.0.1.EL 2.4.21-32.0.1.ELsmp 2.4.21-32.0.1.ELhugemem		Red Hat Cluster Manager		1.2.16-1				
				No VM				
				LVM 1.0.8-12.2				
				No VM				
Red Hat Enterprise Linux AS/ES 3 (Update 8) IA32 / x86 Processors 2.4.21-47.EL 2.4.21-47.ELsmp 2.4.21-47.ELhugemem		No Cluster		No VM				
				LVM 1.0.8-14				
		VCS		4.0				
				No VM				
Red Hat Enterprise Linux AS/ES 3 (Update 3) Itanium / IA64 Processors 2.4.21-20.EL		No Cluster		No VM				
				LVM 1.0.3-15				
		VCS		2.2				
				No VM				
Red Hat Enterprise Linux AS/ES 3 (Update 5 + Security Fix) Itanium / IA64 Processors 2.4.21-32.0.1.EL		No Cluster		No VM				
				LVM 1.0.8-12.2				
				No VM				
				LVM 1.0.8-14				
Red Hat Enterprise Linux AS/ES 3 (Update 8) Itanium / IA64 Processors 2.4.21-47.EL		No Cluster		No VM				
				LVM 1.0.8-5				
		Red Hat Cluster Manager		1.2.22-2				
				No VM				
Red Hat Enterprise Linux AS/ES 3 (Update 5 + Security Fix) EM64T Processors 2.4.21-20.EL		No Cluster		No VM				
				LVM 1.0.8-12.2				
				No VM				
				LVM 1.0.8-14				
Red Hat Enterprise Linux AS/ES 3 (Update 8) EM64T Processors 2.4.21-47.EL		No Cluster		No VM				
				LVM 1.0.8-14				
				No VM				
				LVM 1.0.8-12.2				
Red Hat Enterprise Linux AS/ES 3 (Update 5 + Security Fix) AMD64 Processors 2.4.21-32.0.1.EL 2.4.21-32.0.1.ELsmp		No Cluster		No VM				
				LVM 1.0.8-14				
				No VM				
				LVM 1.0.8-12.2				
Red Hat Enterprise Linux AS/ES 3 (Update 8) AMD64 Processors 2.4.21-47.EL 2.4.21-47.ELsmp		No Cluster		No VM				
				LVM 1.0.8-14				
				No VM				
				LVM 1.0.8-12.2				
Red Hat Enterprise Linux AS/ES 3 (Update 8) IA32 / x86 Processors 2.4.21-50.EL 2.4.21-50.ELsmp		No Cluster		No VM				
				LVM 1.0.8-14				
				No VM				
				LVM 1.0.8-12.2				

Red Hat Enterprise Linux AS/ES 3 (Update 9) IA64 / Itanium Processors 2.4.21-50.EL	No Cluster		No VM				
			LVM	1.0.8-14			
Red Hat Enterprise Linux AS/ES 3 (Update 9) AMD64 Processors 2.4.21-50.EL 2.4.21-50.ELsmp	No Cluster		No VM				
			LVM	1.0.8-14			
Red Hat Enterprise Linux AS/ES 3 (Update 9) EMT64T Processors 2.4.21-50.EL	No Cluster		No VM				
			LVM	1.0.8-14			
Red Hat Enterprise Linux AS/ES 4 (Update 1) IA32 / x86 Processors 2.6.9-11.EL 2.6.9-11.ELsmp 2.6.9-11.ELhugemem	No Cluster		No VM				
			LVM	2.01.08-1.0.RHEL4			
	RedHat Cluster Suite	1.0.12-1.0	No VM				
			LVM	2.01.08-1.0.RHEL4			
	Lifekeeper	6.1	No LVM - OR - LVM 2.01.08-1.0.RHEL4		77	77	77
		6.2			87	87	87
		6.3			90	90	90
		6.4			91	91	91
		7.0			91	91	91
		7.1			91	91	91
		7.2			97	97	97
		7.3			97	97	97
		7.4			97	97	97
Red Hat Enterprise Linux AS/ES 4 (Update 3) IA32 / x86 Processors 2.6.9-34.EL 2.6.9-34.ELsmp 2.6.9-34.ELhugemem	No Cluster		No VM				
			LVM	2.02.01-1.3.RHEL4 2.02.21-5.el4			
	RedHat Cluster Suite	1.0.12-1.0	No VM				
			LVM	2.02.01-1.3.RHEL4			
	Lifekeeper	6.0	No LVM - OR - 2.02.01-1.3.RHEL4		75	75	75
		6.1			77	77	77
		6.2			87	87	87
		6.3			90	90	90
		6.4			91	91	91
		7.0			91	91	91
		7.1			91	91	91
		7.2			97	97	97
		7.3			97	97	97
		7.4			97	97	97
Red Hat Enterprise Linux AS/ES 4 (Update 3 + Security Fix) IA32 / x86 Processors 2.6.9-34.0.2EL 2.6.9-34.0.2ELsmp 2.6.9-34.0.2ELhugemem	No Cluster		No VM				
			LVM	2.02.01-1.3.RHEL4			
	RedHat Cluster Suite	1.0.4-0	No VM				
			LVM	2.02.01-1.3.RHEL4			
	Lifekeeper	6.0	No LVM - OR - 2.02.01-1.3.RHEL4		75	75	75
		6.1			77	77	77
		6.2			87	87	87
		6.3			90	90	90
		6.4			91	91	91
		7.0			91	91	91
		7.1			91	91	91
		7.2			97	97	97
		7.3			97	97	97
		7.4			97	97	97

Red Hat Enterprise Linux AS/ES 4 (Update 4) IA32 / x86 Processors 2.6.9-42.EL 2.6.9-42.ELsmp 2.6.9-42.ELhugemem	No Cluster		No VM				
			LVM	2.02.06-6.0.RHEL4			
	RedHat Cluster Suite	1.0.12-1.0	No VM				
			LVM	2.02.06-6.0.RHEL4			
	Lifekeeper	6.0	No LVM - OR - 2.02.06-6.0.RHEL4		75	75	75
		6.1			77	77	77
		6.2			87	87	87
		6.3			90	90	90
		6.4			91	91	91
		7.0			91	91	91
		7.1			91	91	91
		7.2			97	97	97
		7.3			97	97	97
		7.4			97	97	97
Red Hat Enterprise Linux AS/ES 4 (Update 4 + Security Fix) IA32 / x86 Processors 2.6.9-42.0.3.EL 2.6.9-42.0.3.ELsmp 2.6.9-42.0.3.ELhugemem	No Cluster		No VM				
			LVM	2.02.06-6.0.RHEL4			
	RedHat Cluster Suite	1.0.12-1.0	No VM				
			LVM	2.02.06-6.0.RHEL4			
	Lifekeeper	6.0	No LVM - OR - 2.02.06-6.0.RHEL4		75	75	75
		6.1			77	77	77
		6.2			87	87	87
		6.3			90	90	90
		6.4			91	91	91
		7.0			91	91	91
		7.1			91	91	91
		7.2			97	97	97
		7.3			97	97	97
		7.4			97	97	97
Red Hat Enterprise Linux AS/ES 4.5 IA32 / x86 Processors 2.6.9-55.EL 2.6.9-55.ELsmp 2.6.9-55.ELhugemem	No Cluster		No VM				
			LVM	2.02.21-5.EL4			
	RedHat Cluster Suite	1.0.12-1.0	No VM				
			LVM	2.02.21-5.EL4			
	Lifekeeper	6.0	No LVM - OR - 2.02.21-5.el4				
		6.1					
		6.2			87	87	87
		6.3			90	90	90
		6.4			91	91	91
		7.0			91	91	91
		7.1			91	91	91
		7.2			97	97	97
		7.3			97	97	97
		7.4			97	97	97
Red Hat Enterprise Linux AS/ES 4.6 IA32 / x86 Processors 2.6.9-67.EL 2.6.9-67.ELsmp 2.6.9-67.ELhugemem	No Cluster		No VM				
			LVM	2.02.21-5.EL4			
	RedHat Cluster Suite	1.0.12-1.0	No VM				
			LVM	2.02.21-5.EL4			
	Lifekeeper	6.0	No LVM - OR - 2.02.27-2.el4				
		6.1					
		6.2			87	87	87
		6.3			90	90	90
		6.4			91	91	91
		7.0			91	91	91
		7.1			91	91	91
		7.2			97	97	97
		7.3			97	97	97
		7.4			97	97	97

Red Hat Enterprise Linux AS/ES 4.7 IA32 / x86 Processors 2.6.9-78.EL 2.6.9-78.ELsmp 2.6.9-78.ELhugemem	No Cluster		No VM				
			LVM	2.02.37-3.el4			
				2.02.21-5.el4			
	Lifekeeper	6.4	No LVM - OR - 2.02.37-3.el4		91	91	91
		7.0			91	91	91
		7.1			95	95	95
		7.2			97	97	97
		7.3			97	97	97
		7.4			97	97	97
Red Hat Enterprise Linux AS/ES 4.8 IA32 / x86 Processors 2.6.9-89.EL 2.6.9-89.ELsmp 2.6.9-89.ELhugemem	No Cluster		No VM				
			LVM	2.02.42-5.el4			
	Lifekeeper	6.4	No LVM - OR - 2.02.37-3.el4				
		7.0			91	91	91
		7.1			91	91	91
		7.2			97	97	97
		7.3			97	97	97
		7.4			97	97	97
Red Hat Enterprise Linux AS/ES 4.9 IA32 / x86 Processors 2.6.9-100.EL 2.6.9-100.ELsmp 2.6.9-100.ELhugemem	No Cluster		No VM				
			LVM	2.02.42-9.el4			
Red Hat Enterprise Linux AS/ES 4 (Update 1) AMD64 and EM64T Processors 2.6.9-11.EL 2.6.9-11.ELsmp	No Cluster		No VM				
			LVM	2.01.08-1.0.RHEL4			
	Red-Hat Cluster Suite	1.0.12-1.0	No VM				
			LVM	2.01.08-1.0.RHEL4			
	Lifekeeper	6.0	No LVM - OR - 2.01.08-1.0.RHEL4		75	75	75
		6.1			77	77	77
		6.2			87	87	87
		6.3			90	90	90
		6.4			91	91	91
		7.0			91	91	91
		7.1			91	91	91
		7.2			97	97	97
		7.3			97	97	97
		7.4			97	97	97
Red Hat Enterprise Linux AS/ES 4 (Update 3) AMD64 and EM64T Processors 2.6.9-34.EL 2.6.9-34.ELsmp 2.6.9-34.ELlargesmp	No Cluster		No VM				
			LVM	2.02.01-1.3.RHEL4			
				2.02.21-5.el4			
	Red-Hat Cluster Suite	1.0.12-1.0	No VM				
			LVM	2.02.01-1.3.RHEL4			
	Lifekeeper	6.0	No LVM - OR - 2.02.01-1.3.RHEL4		75	75	75
		6.1			77	77	77
		6.2			87	87	87
		6.3			90	90	90
		6.4			91	91	91
		7.0			91	91	91
		7.1			91	91	91
		7.2			97	97	97
		7.3			97	97	97
		7.4			97	97	97

Red Hat Enterprise Linux AS/ES 4 (Update 3 + Security Fix) AMD64 and EM64T Processors 2.6.9-34.0.2.EL 2.6.9-34.0.2.ELsmp 2.6.9-34.0.2.ELlargesmp	No Cluster		No VM				
			LVM	2.02.01-1.3.RHEL4			
				2.02.21-5.el4			
	Red-Hat Cluster Suite	1.0.4-0	No VM				
	Lifekeeper	6.0	LVM	2.02.01-1.3.RHEL4			
		6.1	No LVM - OR - 2.02.01-1.3.RHEL4		75	75	75
		6.2			77	77	77
		6.3			87	87	87
		6.4			90	90	90
		7.0			91	91	91
		7.1			91	91	91
		7.2			97	97	97
		7.3			97	97	97
		7.4			97	97	97
Red Hat Enterprise Linux AS/ES 4 (Update 4) AMD64 and EM64T Processors 2.6.9-42.EL 2.6.9-42.ELsmp 2.6.9-42.ELlargesmp	No Cluster		No VM				
			LVM	2.02.06-6.0.RHEL4			
			No VM				
	Red-Hat Cluster Suite	1.0.12-1.0	LVM	2.02.06-6.0.RHEL4			
	Lifekeeper	6.0	No LVM - OR - 2.02.06-6.0.RHEL4		75	75	75
		6.1			77	77	77
		6.2			87	87	87
		6.3			90	90	90
		6.4			91	91	91
		7.0			91	91	91
		7.1			91	91	91
		7.2			97	97	97
		7.3			97	97	97
		7.4			97	97	97
Red Hat Enterprise Linux AS/ES 4 (Update 4 + Security Fix) AMD64 and EM64T Processors 2.6.9-42.0.3.EL 2.6.9-42.0.3.ELsmp 2.6.9-42.0.3.ELlargesmp	No Cluster		No VM				
			LVM	2.02.06-6.0.RHEL4			
			No VM				
	Red-Hat Cluster Suite	1.0.12-1.0	LVM	2.02.06-6.0.RHEL4			
	Lifekeeper	6.0	No LVM - OR - 2.02.06-6.0.RHEL4		75	75	75
		6.1			77	77	77
		6.2			87	87	87
		6.3			90	90	90
		6.4			91	91	91
		7.0			91	91	91
		7.1			91	91	91
		7.2			97	97	97
		7.3			97	97	97
		7.4			97	97	97
Red Hat Enterprise Linux AS/ES 4.5 AMD64 and EM64T Processors 2.6.9-55.EL 2.6.9-55.ELsmp 2.6.9-55.ELlargesmp	No Cluster		No VM				
			LVM	2.02.21-5.el4			
			No VM				
	Red-Hat Cluster Suite	1.0.12-1.0	LVM	2.02.21-5.el4			
	Lifekeeper	6.0	No LVM - OR - 2.02.21-5.el4				
		6.1					
		6.2			87	87	87
		6.3			90	90	90
		6.4			91	91	91
		7.0			91	91	91
		7.1			91	91	91
		7.2			97	97	97
		7.3			97	97	97
		7.4			97	97	97

Red Hat Enterprise Linux AS/ES 4.6 AMD64 / EM64T Processors 2.6.9-67.EL 2.6.9-67.ELsmp 2.6.9-67.ELlargesmp	No Cluster		No VM					
			LVM	2.02.27-2.el4				
	RedHat Cluster Suite	1.0.12-1.0	No VM					
			LVM	2.02.27-2.el4				
	Lifekeeper	6.0	No LVM - OR - 2.02.27-2.el4					
		6.1						
		6.2			87	87	87	
		6.3			90	90	90	
		6.4			91	91	91	
		7.0			91	91	91	
		7.1			91	91	91	
		7.2			97	97	97	
		7.3			97	97	97	
	7.4	97	97	97				
Red Hat Enterprise Linux AS/ES 4.7 AMD64 / EM64T Processors 2.6.9-78.EL 2.6.9-78.ELsmp 2.6.9-78.ELlargesmp	No Cluster		No VM					
			LVM	2.02.37-3.el4				
				2.02.21-5.el4				
	Lifekeeper	6.4	No LVM - OR - 2.02.37-3.el4		91	91	91	
		7.0			91	91	91	
		7.1			91	91	91	
		7.2			97	97	97	
		7.3			97	97	97	
		7.4			97	97	97	
	Red Hat Enterprise Linux AS/ES 4.8 AMD64 / EM64T Processors 2.6.9-89.EL 2.6.9-89.ELsmp 2.6.9-89.ELlargesmp	No Cluster		No VM				
				LVM	2.02.42-5.el4			
		Lifekeeper	6.4	No LVM - OR - 2.02.42-5.el4				
			7.0			91	91	91
7.1			91			91	91	
7.2			97			97	97	
7.3			97			97	97	
7.4			97			97	97	
Red Hat Enterprise Linux AS/ES 4.9 AMD64 / EM64T Processors 2.6.9-100.EL 2.6.9-100.ELsmp 2.6.9-100.ELlargesmp		No Cluster		No VM				
				LVM	2.02.42-9.el4			
Red Hat Enterprise Linux AS/ES 4 (Update 1) Itanium / IA64 Processors 2.6.9-11.EL		No Cluster		No VM				
				LVM	2.01.08-1.0.RHEL4			
Red Hat Enterprise Linux AS/ES 4 (Update 3) Itanium / IA64 Processors 2.6.9-34.EL		No Cluster		No VM				
	LVM			2.02.01-1.3.RHEL4				
				2.02.21-5.el4				
Red Hat Enterprise Linux AS/ES 4 (Update 4) Itanium / IA64 Processors 2.6.9-42.EL	RedHat Cluster Suite	1.0.12-1.0	No VM					
			LVM	2.02.01-1.3.RHEL4				
Red Hat Enterprise Linux AS/ES 4 (Update 4) Itanium / IA64 Processors 2.6.9-42.EL	No Cluster		No VM					
			LVM	2.02.06-6.0.RHEL4				
	RedHat Cluster Suite	1.0.12-1.0	No VM					
			LVM	2.02.06-6.0.RHEL4				
Red Hat Enterprise Linux AS/ES 4 (Update 4 + Security Fix) Itanium / IA64 Processors 2.6.9-42.0.3.EL	PrimeCluster	4.2A00	PrimeCluster GDS 4.2A00					
	No Cluster		No VM					
			LVM	2.02.06-6.0.RHEL4				
Red Hat Enterprise Linux AS/ES 4.5 Itanium / IA64 Processors 2.6.9-55.EL 2.6.9-55.ELlargesmp	RedHat Cluster Suite	1.0.12-1.0	No VM					
			LVM	2.02.06-6.0.RHEL4				
Red Hat Enterprise Linux AS/ES 4.5 Itanium / IA64 Processors 2.6.9-55.EL 2.6.9-55.ELlargesmp	No Cluster		No VM					
			LVM	2.02.21-5.el4				
Red Hat Enterprise Linux AS/ES 4.5 Itanium / IA64 Processors 2.6.9-55.EL 2.6.9-55.ELlargesmp	RedHat Cluster Suite	1.0.12-1.0	No VM					

	Red Hat Cluster Suite	1.0.12-1.0	LVM	2.02.21-5.el4				
Red Hat Enterprise Linux AS/ES 4.6 Itanium / IA64 Processors 2.6.9-67.EL 2.6.9-67.ELlargesmp	No Cluster		No VM					
			LVM	2.02.27-2.el4				
	RedHat Cluster Suite	1.0.12-1.0	No VM					
			LVM	2.02.27-2.el4				
Red Hat Enterprise Linux AS/ES 4.7 Itanium / IA64 Processors 2.6.9-78.EL 2.6.9-78.ELlargesmp	No Cluster		No VM					
			LVM	2.02.37-3.el4				
				2.02.21-5.el4				
Red Hat Enterprise Linux AS/ES 4.8 Itanium / IA64 Processors 2.6.9-89.EL 2.6.9-89.ELlargesmp	No Cluster		No VM					
			LVM	2.02.42-5.el4				
Red Hat Enterprise Linux AS/ES 4.9 Itanium / IA64 Processors 2.6.9-100.EL 2.6.9-100.ELlargesmp	No Cluster		No VM					
			LVM	2.02.42-9.el4				
Red Hat Enterprise Linux 5 IA32 / x86 Processors 2.6.18-8.el5 2.6.18-8.el5PAE	No Cluster		No VM					
			LVM	2.02.16-3.el5				
	RedHat Cluster Suite	1.0.39-1.0	No VM					
			LVM	2.02.16-3.el5				
	Lifekeeper	6.1	No VM - OR - 2.02.16-3.el5	77	77	77		
		6.2		87	87	87		
		6.3		90	90	90		
		6.4		91	91	91		
		7.0		91	91	91		
		7.1		91	91	91		
		7.2		97	97	97		
		7.3		97	97	97		
		7.4		97	97	97		
		7.5		97	97	97		
		8		97	97	97		
		8.1.1		104	104	104		
	8.1.2	105	105	105				
	Red Hat Enterprise Linux 5 Itanium / IA64 Processors 2.6.18-8.el5	No Cluster		No VM				
				LVM	2.02.16-3.el5			
		RedHat Cluster Suite	1.0.39-1.0	No VM				
LVM				2.02.16-3.el5				
Red Hat Enterprise Linux 5 AMD64 and EM64T Processors 2.6.18-8.el5	No Cluster		No VM					
			LVM	2.02.16-3.el5				
	RedHat Cluster Suite	1.0.39-1.0	No VM					
			LVM	2.02.16-3.el5				
	Lifekeeper	6.1	No VM - OR - 2.02.16-3.el5	77	77	77		
		6.2		87	87	87		
		6.3		90	90	90		
		6.4		91	91	91		
		7.0		91	91	91		
		7.1		91	91	91		
		7.2		97	97	97		
		7.3		97	97	97		
		7.4		97	97	97		
		7.5		97	97	97		
		8		97	97	97		
		8.1.1		104	104	104		
	8.1.2	105	105	105				

Red Hat Enterprise Linux 5.1 IA32 / x86 Processors 2.6.18-53.el5 2.6.18-53.el5PAE	No Cluster		No VM					
			LVM	2.02.16-3.el5				
	RedHat Cluster Suite	1.0.50-1.3	No VM					
			LVM	2.02.26-3.el5				
	Lifekeeper	6.1	No VM - OR - 2.02.26-3.el5		77, 94	77, 94	77, 94	
		6.2			87	87	87	
		6.3			90	90	90	
		6.4			91	91	91	
		7.0			91	91	91	
		7.1			91	91	91	
		7.2			97	97	97	
		7.3			97	97	97	
		7.4			97	97	97	
		7.5			97	97	97	
		8			97	97	97	
		8.1.1			104	104	104	
8.1.2		105			105	105		
Red Hat Enterprise Linux 5.1 Itanium / IA64 Processors 2.6.18-53.el5	No Cluster		No VM					
			LVM	2.02.26-3.el5				
	RedHat Cluster Suite	1.0.50-1.3	No VM					
			LVM	2.02.26-3.el5				
Red Hat Enterprise Linux 5.1 AMD64 and EM64T Processors 2.6.18-53.el5	No Cluster		No VM					
			LVM	2.02.26-3.el5				
	RedHat Cluster Suite	1.0.50-1.3	No VM					
			LVM	2.02.26-3.el5				
	Lifekeeper	6.1	No VM - OR - 2.02.26-3.el5		77, 94	77, 94	77, 94	
		6.2			87	87	87	
		6.3			90	90	90	
		6.4			91	91	91	
		7.0			91	91	91	
		7.1			91	91	91	
		7.2			97	97	97	
		7.3			97	97	97	
		7.4			97	97	97	
		7.5			97	97	97	
		8			97	97	97	
		8.1.1			104	104	104	
		8.1.2			105	105	105	
	Red Hat Enterprise Linux 5.2 IA32 / x86 Processors 2.6.18-92.el5 2.6.18-92.el5PAE	No Cluster		No VM				
				LVM	2.02.32-4.el5			
RedHat Cluster Suite		2.0.84-2	No VM					
			LVM	2.02.32-4.el5				
Lifekeeper		6.3	No VM - OR - 2.02.32-4.el5		90	90	90	
		6.4			91	91	91	
		7.0			91	91	91	
		7.1			91	91	91	
		7.2			97	97	97	
		7.3			97	97	97	
		7.4			97	97	97	
		7.5			97	97	97	
		8			97	97	97	
		8.1.1			104	104	104	
8.1.2		105	105	105				

Red Hat Enterprise Linux 5.2 Itanium / IA64 Processors 2.6.18-92.el5	No Cluster		No VM					
			LVM	2.02.32-4.el5				
	RedHat Cluster Suite	2.0.84-2	No VM					
			LVM	2.02.32-4.el5				
Red Hat Enterprise Linux 5.2 AMD64 and EM64T Processors 2.6.18-92.el5	No Cluster		No VM					
			LVM	2.02.32-4.el5				
	RedHat Cluster Suite	2.0.84-2	No VM					
			LVM	2.02.32-4.el5				
	Lifekeeper	6.3	No VM - OR - 2.02.32-4.el5		90	90	90	
		6.4			91	91	91	
		7.0			91	91	91	
		7.1			91	91	91	
		7.2			97	97	97	
		7.3			97	97	97	
		7.4			97	97	97	
		7.5			97	97	97	
		8			97	97	97	
		8.1.1			104	104	104	
	8.1.2	105	105	105				
	Red Hat Enterprise Linux 5.3 IA32 / x86 Processors 2.6.18-128.el5 2.6.18-128.el5PAE	No Cluster		No VM				
				LVM	2.02.40-6.el5			
		RedHat Cluster Suite	2.0.98-1	No VM				
				LVM	2.02.40-6.el5			
		Lifekeeper	6.4	No VM - OR - 2.02.40-6.el5		91	91	91
7.0			91			91	91	
7.1			91			91	91	
7.2			97			97	97	
7.3			97			97	97	
7.4			97			97	97	
7.5			97			97	97	
8			97			97	97	
8.1.1			104			104	104	
8.1.2		105	105	105				

Red Hat Enterprise Linux 5.3 AMD64 and EM64T Processors 2.6.18-128.el5	No Cluster		No VM				
			LVM	2.02.40-6.el5			
	RedHat Cluster Suite	2.0.98-1	No VM				
			LVM	2.02.40-6.el5			
	Lifekeeper	6.4	No VM - OR - 2.02.40-6.el5		91	91	91
		7.0			91	91	91
		7.1			91	91	91
		7.2			97	97	97
		7.3			97	97	97
		7.4			97	97	97
		7.5			97	97	97
		8			97	97	97
		8.1.1			104	104	104
		8.1.2			105	105	105
Red Hat Enterprise Linux 5.3 Itanium / IA64 Processors 2.6.18-128.el5	No Cluster		No VM				
			LVM	2.02.40-6.el5			
	RedHat Cluster Suite	2.0.98-1	No VM				
			LVM	2.02.40-6.el5			
Red Hat Enterprise Linux 5.4 IA32 / x86 Processors 2.6.18-164.el5 2.6.18-164.el5PAE	No Cluster		No VM				
			LVM	2.02.46-8.el5			
	Lifekeeper	6.4	No VM - OR - 2.02.46-8.el5				
		7.0			91	91	91
		7.1			91	91	91
		7.2			97	97	97
		7.3			97	97	97
		7.4			97	97	97
		7.5			97	97	97
		8			97	97	97
		8.1.1			104	104	104
		8.1.2			105	105	105
Red Hat Enterprise Linux 5.4 Itanium / IA64 Processors 2.6.18-164.el5	No Cluster		No VM				
LVM			2.02.46-8.el5				
Red Hat Enterprise Linux 5.4 AMD64 and EM64T Processors 2.6.18-164.el5	No Cluster		No VM				
			LVM	2.02.46-8.el5			
	Lifekeeper	6.4	No VM - OR - 2.02.46-8.el5				
		7.0			91	91	91
		7.1			91	91	91
		7.2			97	97	97
		7.3			97	97	97
		7.4			97	97	97
		7.5			97	97	97
		8			97	97	97
		8.1.1			104	104	104
		8.1.2			105	105	105
Red Hat Enterprise Linux 5.5 IA32 / x86 Processors 2.6.18-194.el5 2.6.18-194.el5PAE	No Cluster		No VM				
			LVM	2.02.56-8.el5			
	Lifekeeper	6.4	No VM - OR - 2.02.56-8.el5				
		7.0					
		7.1			91	91	91
		7.2			97	97	97
		7.3			97	97	97
		7.4			97	97	97
		7.5			97	97	97
		8			97	97	97
		8.1.1			104	104	104
		8.1.2			105	105	105
	RedHat Cluster Suite		No VM		101	101	101
			LVM	2.02.56-8.el5	101	101	101

Red Hat Enterprise Linux 5.5 Itanium / IA64 Processors 2.6.18-194.el5	No Cluster		No VM				
			LVM	2.02.56-8.el5			
	RedHat Cluster Suite		No VM		101	101	101
			LVM	2.02.56-8.el5	101	101	101
Red Hat Enterprise Linux 5.5 AMD64 and EM64T Processors 2.6.18-194.el5	No Cluster		No VM				
			LVM	2.02.56-8.el5			
	Lifekeeper	6.4	No VM - OR - 2.02.56-8.el5				
		7.0					
		7.1			97	97	97
		7.2			97	97	97
		7.3			97	97	97
		7.4			97	97	97
		7.5			97	97	97
		8			97	97	97
		8.1.1			104	104	104
		8.1.2			105	105	105
	RedHat Cluster Suite		No VM		101	101	101
			LVM	2.02.56-8.el5	101	101	101
Red Hat Enterprise Linux 5.6 IA32 / x86 Processors 2.6.18-238.el5 2.6.18-238.el5PAE	No Cluster		No VM				
			LVM	2.02.74-5.el5			
				2.02.84-3.el5			
	RedHat Cluster Suite		No VM		101	101	101
			LVM	2.02.74-5.el5	101	101	101
	Lifekeeper	6.4	No VM - OR - 2.02.74-5.el5				
		7.0					
		7.1					
		7.2					
		7.3			97, 101	97, 101	97, 101
		7.4			97, 101	97, 101	97, 101
		7.5			97, 101	97, 101	97, 101
		8			97, 101	97, 101	97, 101
		8.1.1			101, 104	101, 104	101, 104
		8.1.2			101, 105	101, 105	101, 105
Red Hat Enterprise Linux 5.6 Itanium / IA64 Processors 2.6.18-238.el5	No Cluster		No VM				
			LVM	2.02.74-5.el5			
				2.02.84-3.el5			
	RedHat Cluster Suite		No VM		101	101	101
			LVM	2.02.74-5.el5	101	101	101

Red Hat Enterprise Linux 5.6 AMD64 and EM64T Processors 2.6.18-238.el5	No Cluster		No VM				
			LVM	2.02.74-5.el5			
				2.02.84-3.el5			
	RedHat Cluster Suite		No VM		101	101	101
			LVM	2.02.74-5.el5	101	101	101
	Lifekeeper	6.4	No VM - OR - 2.02.74-5.el5				
		7.0					
		7.1					
		7.2					
		7.3			97, 101	97, 101	97, 101
		7.4			97, 101	97, 101	97, 101
		7.5			97, 101	97, 101	97, 101
		8			97, 101	97, 101	97, 101
		8.1.1			101, 104	101, 104	101, 104
	8.1.2	101, 105	101, 105	101, 105			
Red Hat Enterprise Linux 5.7 IA32 / x86 Processors 2.6.18-274.el5 2.6.18-274.el5PAE	No Cluster		No VM				
			LVM	2.02.84-6.el5	101	101	101
	RedHat Cluster Suite	2.0.115-85	No VM		101	101	101
			LVM	2.02.84-6.el5	101	101	101
	Lifekeeper	7.3	LVM 2.02.84-6.el5		97, 101	97, 101	97, 101
		7.4			97, 101	97, 101	97, 101
		7.5			97, 101	97, 101	97, 101
		8			97, 101	97, 101	97, 101
		8.1.1			101, 104	101, 104	101, 104
		8.1.2			101, 105	101, 105	101, 105
Red Hat Enterprise Linux 5.7 Itanium / IA64 Processors 2.6.18-274.el5	No Cluster		No VM				
			LVM	2.02.84-6.el5	101	101	101
	RedHat Cluster Suite	2.0.115-85	No VM				
			LVM	2.02.84-6.el5	101	101	101
Red Hat Enterprise Linux 5.7 AMD64 and EM64T Processors 2.6.18-274.el5	No Cluster		No VM				
			LVM	2.02.84-6.el5	101	101	101
	RedHat Cluster Suite	2.0.115-85	No VM		101	101	101
			LVM	2.02.84-6.el5	101	101	101
	Lifekeeper	7.3	LVM 2.02.84-6.el5		97, 101	97, 101	97, 101
		7.4			97, 101	97, 101	97, 101
		7.5			97, 101	97, 101	97, 101
		8			97, 101	97, 101	97, 101
		8.1.1			101, 104	101, 104	101, 104
		8.1.2			101, 105	101, 105	101, 105

Red Hat Enterprise Linux 5.8 IA32 / x86 Processors 2.6.18-308.el5 2.6.18-308.el5PAE	No Cluster		No VM				
			LVM	2.02.88-7.el5			
	RedHat Cluster Suite	2.0.115-96	No VM		101	101	101
			LVM	2.02.88-7.el5	101	101	101
	Lifekeeper	7.5	No VM - OR - 2.02.88-7.el5		97, 101	97, 101	97, 101
		8			97, 101	97, 101	97, 101
		8.1.1			101, 104	101, 104	101, 104
		8.1.2			101, 105	101, 105	101, 105
Red Hat Enterprise Linux 5.8 Itanium / IA64 Processors 2.6.18-308.el5	No Cluster		No VM				
			LVM	2.02.88-7.el5			
	RedHat Cluster Suite	2.0.115-96	No VM		101	101	101
			LVM	2.02.88-7.el5	101	101	101
	Lifekeeper	7.5	No VM - OR - 2.02.88-7.el5		97, 101	97, 101	97, 101
		8			97, 101	97, 101	97, 101
		8.1.1			101, 104	101, 104	101, 104
		8.1.2			101, 105	101, 105	101, 105
Red Hat Enterprise Linux 5.8 AMD64 and EM64T Processors 2.6.18-308.el5	No Cluster		No VM				
			LVM	2.02.88-7.el5			
	RedHat Cluster Suite	2.0.115-96	No VM		101	101	101
			LVM	2.02.88-7.el5	101	101	101
	Lifekeeper	7.5	No VM - OR - 2.02.88-7.el5		97, 101	97, 101	97, 101
		8			97, 101	97, 101	97, 101
		8.1.1			101, 104	101, 104	101, 104
		8.1.2			101, 105	101, 105	101, 105
Red Hat Enterprise Linux 5.9 IA32 / x86 Processors 2.6.18-348.el5 2.6.18-348.el5PAE	No Cluster		No VM				
			LVM	2.02.88-10.el5			
	RedHat Cluster Suite	2.0.115-109	No VM		101	101	101
			LVM	2.02.88-10.el5	101	101	101
Red Hat Enterprise Linux 5.9 Itanium / IA64 Processors 2.6.18-348.el5	No Cluster		No VM				
			LVM	2.02.88-10.el5			
	RedHat Cluster Suite	2.0.115-109	No VM		101	101	101
			LVM	2.02.88-10.el5	101	101	101
Red Hat Enterprise Linux 5.9 AMD64 and EM64T Processors 2.6.18-348.el5	No Cluster		No VM				
			LVM	2.02.88-10.el5			
	RedHat Cluster Suite	2.0.115-109	No VM		101	101	101
			LVM	2.02.88-10.el5	101	101	101
Red Hat Enterprise Linux 5.10 IA32 / x86 Processors 2.6.18-371.el5 2.6.18-371.el5PAE	No Cluster		No VM		101	101	101
			LVM	2.02.88-12.el5	101	101	101
	RedHat Cluster Suite	2.0.115-118	No VM		101	101	101
			LVM	2.02.88-12.el5	101	101	101

Red Hat Enterprise Linux 5.10 Itanium / IA64 Processors 2.6.18-371.el5	No Cluster		No VM		101	101	101	
			LVM	2.02.88-12.el5	101	101	101	
	RedHat Cluster Suite	2.0.115-118	No VM		101	101	101	
			LVM	2.02.88-12.el5	101	101	101	
Red Hat Enterprise Linux 5.10 AMD64 and EM64T Processors 2.6.18-371.el5	No Cluster		No VM		101	101	101	
			LVM	2.02.88-12.el5	101	101	101	
	RedHat Cluster Suite	2.0.115-118	No VM		101	101	101	
			LVM	2.02.88-12.el5	101	101	101	
Red Hat Enterprise Linux 6 IA32 / x86 Processors 2.6.32-71.el6.i686	No Cluster		No VM					
			LVM	2.02.72-8.el6				
	RedHat Cluster Suite		No VM					
			LVM	2.02.72-8.el6				
	Lifekeeper	7.3	No VM - OR - 2.02.72-8.el6	97, 101	97, 101	97, 101		
		7.4		97, 101	97, 101	97, 101		
		7.5		97, 101	97, 101	97, 101		
		8		97, 101	97, 101	97, 101		
		8.1.1		101, 104	101, 104	101, 104		
		8.1.2		101, 105	101, 105	101, 105		
Red Hat Enterprise Linux 6 AMD64 and EM64T Processors 2.6.32-71.el6.x86_64	No Cluster		No VM					
			LVM	2.02.72-8.el6				
	RedHat Cluster Suite		No VM					
			LVM	2.02.72-8.el6				
	Lifekeeper	7.3	No VM - OR - 2.02.72-8.el6	97, 101	97, 101	97, 101		
		7.4		97, 101	97, 101	97, 101		
		7.5		97, 101	97, 101	97, 101		
		8		97, 101	97, 101	97, 101		
		8.1.1		101, 104	101, 104	101, 104		
	8.1.2	101, 105	101, 105	101, 105				
Red Hat Enterprise Linux 6.1 IA32 / x86 Processors 2.6.32-131.0.15.el6.i686	No Cluster		No VM					
			LVM	2.02.83-3.el6				
	RedHat Cluster Suite		No VM					
			LVM	2.02.83-3.el6				
	Lifekeeper	7.5	No VM - OR - 2.02.83-3.el6	97, 101	97, 101	97, 101		
		8		97, 101	97, 101	97, 101		
		8.1.1		101, 104	101, 104	101, 104		
		8.1.2		101, 105	101, 105	101, 105		
Red Hat Enterprise Linux 6.1 AMD64 and EM64T Processors 2.6.32-131.0.15.el6.x86_64	No Cluster		No VM					
			LVM	2.02.83-3.el6				
	RedHat Cluster Suite		No VM					
			LVM	2.02.83-3.el6				
	Lifekeeper	7.5	No VM - OR - 2.02.83-3.el6	97, 101	97, 101	97, 101		
		8		97, 101	97, 101	97, 101		
		8.1.1		101, 104	101, 104	101, 104		
		8.1.2		101, 105	101, 105	101, 105		
	Red Hat Enterprise Linux 6.2 IA32 / x86 Processors 2.6.32-220.el6.i686	No Cluster		No VM				
				LVM	2.02.87-6.el6			
RedHat Cluster Suite		No VM						
		LVM	2.02.87-6.el6					
Lifekeeper		7.5	No VM - OR - 2.02.87-6.el6	97, 101	97, 101	97, 101		
		8		97, 101	97, 101	97, 101		
		8.1.1		101, 104	101, 104	101, 104		
		8.1.2		101, 105	101, 105	101, 105		
Red Hat Enterprise Linux 6.2 AMD64 and EM64T Processors 2.6.32-220.el6.x86_64	No Cluster		No VM					
			LVM	2.02.87-6.el6				
	RedHat Cluster Suite		No VM					
			LVM	2.02.87-6.el6				
	Lifekeeper	7.5	No VM - OR - 2.02.87-6.el6	97, 101	97, 101	97, 101		
		8		97, 101	97, 101	97, 101		
		8.1.1		101, 104	101, 104	101, 104		
		8.1.2		101, 105	101, 105	101, 105		
	Red Hat Enterprise Linux 6.3 IA32 / x86 Processors 2.6.32-279.el6.i686	No Cluster		No VM				
				LVM	2.02.95-10.el6			
RedHat Cluster Suite		No VM						
		LVM	2.02.95-10.el6					
Lifekeeper		7.5	No VM - OR - 2.02.95-10.el6	97, 101	97, 101	97, 101		
		8		97, 101	97, 101	97, 101		
		8.1.1		101, 104	101, 104	101, 104		
		8.1.2		101, 105	101, 105	101, 105		

Red Hat Enterprise Linux 6.3 AMD64 and EM64T Processors 2.6.32-279.el6.x86_64	No Cluster		No VM				
			LVM	2.02.95-10.el6			
	RedHat Cluster Suite		No VM				
			LVM	2.02.95-10.el6			
	Lifekeeper	7.5	No VM - OR - 2.02.95-10.el6		97, 101	97, 101	97, 101
		8			97, 101	97, 101	97, 101
		8.1.1			101, 104	101, 104	101, 104
		8.1.2			101, 105	101, 105	101, 105
Red Hat Enterprise Linux 6.4 IA32 / x86 Processors 2.6.32-358.el6.i686	No Cluster		No VM				
			LVM	2.02.98-9.el6			
	RedHat Cluster Suite		No VM				
			LVM	2.02.98-9.el6			
	Lifekeeper	8.1.2	No VM - OR - 2.02.98-9.el6		101, 105	101, 105	101, 105
Red Hat Enterprise Linux 6.4 AMD64 and EM64T Processors 2.6.32-358.el6.x86_64	No Cluster		No VM				
			LVM	2.02.98-9.el6			
	RedHat Cluster Suite		No VM				
			LVM	2.02.98-9.el6			
	Lifekeeper	8.1.2	No VM - OR - 2.02.98-9.el6		101, 105	101, 105	101, 105
SUSE Linux Enterprise Server 9 (Service Pack 3) IA32 / x86 Processors 2.6.5-7.244-defaults 2.6.5-7.244-smp 2.6.5-7.244-bigsmpp	No Cluster		No VM				
			LVM	2.01.14-3.6			
SUSE Linux Enterprise Server 9 (Service Pack 3) AMD64 and EM64T Processors 2.6.5-7.244-defaults 2.6.5-7.244-smp	No Cluster		No VM				
			LVM	2.01.14-3.6			
SUSE Linux Enterprise Server 9 (Service Pack 3) Itanium / IA64 Processors 2.6.5-7.139-defaults 2.6.5-7.139-64k-pagesize	No Cluster		No VM				
			LVM	2.00.15-0.8			
SUSE Linux Enterprise Server 9 (Service Pack 3 Errata) AMD64 and EM64T Processors 2.6.5-7.252-defaults 2.6.5-7.252-smp	No Cluster		No VM				
			LVM	2.00.14-3.6			
SUSE Linux Enterprise Server 9 (Service Pack 3) Itanium / IA64 Processors 2.6.5-7.244-defaults 2.6.5-7.244-64k-pagesize	No Cluster		No VM				
			LVM	2.01.14-3.6			
SUSE Linux Enterprise Server 9 (Service Pack 3 Errata) AMD64 / EM64T Processors 2.6.5-7.263-defaults	No Cluster		No VM				
			LVM	2.01.14-3.6			
SUSE Linux Enterprise Server 9 (Service Pack 4) IA32 / x86 Processors 2.6.5-7.308-default 2.6.5-7.308-smp 2.6.5-7.308-bigsmpp	No Cluster		No VM				
			LVM	2.01.14-3.23			
	Heartbeat	1.2.5-0.3	No VM				
SUSE Linux Enterprise Server 9 (Service Pack 4) IA64 / Itanium Processors 2.6.5-7.308-default 2.6.5-7.308-64k-pagesize	No Cluster		No VM				
			LVM	2.01.14-3.23			
	Heartbeat	1.2.5-0.3	No VM				
SUSE Linux Enterprise Server 9 (Service Pack 4) AMD / EM64T Processors 2.6.5-7.308-default 2.6.5-7.308-smp	No Cluster		No VM				
			LVM	2.01.14-3.23			
	Heartbeat	1.2.5-0.3	No VM				
SUSE Linux Enterprise Server 9 (Service Pack 4 + Security Fix) IA32 / x86 Processors 2.6.5-7.315-default 2.6.5-7.315-smp 2.6.5-7.315-bigsmpp	No Cluster		No VM				
			LVM	2.01.14-3.23			
	Heartbeat	1.2.5-0.3	No VM				
SUSE Linux Enterprise Server 9 (Service Pack 4 + Security Fix) AMD / EM64T Processors 2.6.5-7.315-default 2.6.5-7.315-smp	No Cluster		No VM				
			LVM	2.01.14-3.23			
	Heartbeat	1.2.5-0.3	No VM				
SUSE Linux Enterprise Server 10 IA32 / x86 Processors 2.6.16.21-0.8-default 2.6.16.21-0.8-smp 2.6.16.21-0.8-bigsmpp	No Cluster		No VM				
			LVM	2.02.02-11.2			
SUSE Linux Enterprise Server 10 (Security Fix) IA32 / x86 Processors 2.6.16.27-0.9-default 2.6.16.27-0.9-smp 2.6.16.27-0.9-bigsmpp	No Cluster		No VM				
			LVM	2.02.02-11.2			
SUSE Linux Enterprise Server 10 AMD64 and EM64T Processors 2.6.16.21-0.8-default 2.6.16.21-0.8-smp	No Cluster		No VM				
			LVM	2.02.02-11.2			
SUSE Linux Enterprise Server 10 (Security Fix) AMD64 and EM64T Processors 2.6.16.27-0.9-default 2.6.16.27-0.9-smp	No Cluster		No VM				
			LVM	2.02.02-11.2			
SUSE Linux Enterprise Server 10 Itanium / IA64 Processors 2.6.16.21-0.8-default	No Cluster		No VM				
			LVM	2.02.02-11.2			
SUSE Linux Enterprise Server 10 (Security Fix) Itanium / IA64 Processors 2.6.16.27-0.9-default	No Cluster		No VM				
			LVM	2.02.02-11.2			

SUSE Linux Enterprise Server 10 (Service Pack 1) IA32 / x86 Processors 2.6.16.46-0.14-default 2.6.16.46-0.14-smp 2.6.16.46-0.14-bigsmp	No Cluster		No VM				
			LVM	2.02.17-7.9			
	Heartbeat	Bundle 2.0.8-0.19	No VM		93	93	93
			LVM	2.02.17-7.9	93	93	93
SUSE Linux Enterprise Server 10 (Service Pack 1) Itanium / IA64 Processors 2.6.16.46-0.14-default	No Cluster		No VM				
			LVM	2.02.17-7.9			
	Heartbeat	Bundle 2.0.8-0.19	No VM		93	93	93
			LVM	2.02.17-7.9	93	93	93
SUSE Linux Enterprise Server 10 (Service Pack 1) AMD64 and EM64T Processors 2.6.16.46-0.14-default	No Cluster		No VM				
			LVM	2.02.17-7.9			
	Heartbeat	Bundle 2.0.8-0.19	No VM		93	93	93
			LVM	2.02.17-7.9	93	93	93
SUSE Linux Enterprise Server 10 (Service Pack 2) IA32 / x86 Processors 2.6.16.60-0.21-default 2.6.16.60-0.21-smp 2.6.16.60-0.21-bigsmp	No Cluster		No VM				
			LVM	2.02.17-7.19			
	Heartbeat	Bundle 2.1.3-0.9	No VM		93	93	93
			LVM	2.02.17-7.19	93	93	93
SUSE Linux Enterprise Server 10 (Service Pack 2) IA32 / x86 Processors 2.6.16.60-0.21-xenpae	No Cluster		No VM				
			LVM	2.02.17-7.19			
	Heartbeat	Bundle 2.1.3-0.9	No VM		93	93	93
			LVM	2.02.17-7.19	93	93	93
SUSE Linux Enterprise Server 10 (Service Pack 2 + Security Fix) IA32 / x86 Processors 2.6.16.60-0.29-default 2.6.16.60-0.29-smp 2.6.16.60-0.29-bigsmp	No Cluster		No VM				
			LVM	2.02.17-7.19			
	Heartbeat	Bundle 2.1.3-0.9	No VM		93	93	93
			LVM	2.02.17-7.19	93	93	93
SUSE Linux Enterprise Server 10 (Service Pack 2 + Security Fix) IA32 / x86 Processors 2.6.16.60-0.29-xenpae	No Cluster		No VM				
			LVM	2.02.17-7.19			
	Heartbeat	Bundle 2.1.3-0.9	No VM		93	93	93
			LVM	2.02.17-7.19	93	93	93
SUSE Linux Enterprise Server 10 (Service Pack 2) Itanium / IA64 Processors 2.6.16.60-0.21-default	No Cluster		No VM				
			LVM	2.02.17-7.19			
	Heartbeat	Bundle 2.1.3-0.9	No VM		93	93	93
			LVM	2.02.17-7.19	93	93	93
SUSE Linux Enterprise Server 10 (Service Pack 2) AMD64 and EM64T Processors 2.6.16.60-0.21-smp	No Cluster		No VM				
			LVM	2.02.17-7.19			
	Heartbeat	Bundle 2.1.3-0.9	No VM		93	93	93
			LVM	2.02.17-7.19	93	93	93
SUSE Linux Enterprise Server 10 (Service Pack 2 + Security Fix) IA32 / x86 Processors 2.6.16.60-0.42.5-default 2.6.16.60-0.42.5-smp 2.6.16.60-0.42.5-bigsmp 2.6.16.60-0.42.5-xenpae	No Cluster		No VM				
			LVM	2.02.17-7.19			
	Heartbeat	Bundle 2.1.3-0.9	No VM		93	93	93
			LVM	2.02.17-7.19	93	93	93
SUSE Linux Enterprise Server 10 (Service Pack 2 + Security Fix) Itanium / IA64 Processors 2.6.16.60-0.42.5-default	No Cluster		No VM				
			LVM	2.02.17-7.19			
	Heartbeat	Bundle 2.1.3-0.9	No VM		93	93	93
			LVM	2.02.17-7.19	93	93	93
SUSE Linux Enterprise Server 10 (Service Pack 2 + Security Fix) AMD64 and EM64T Processors 2.6.16.60-0.42.5-default 2.6.16.60-0.42.5-smp 2.6.16.60-0.42.5-bigsmp 2.6.16.60-0.42.5-xenpae	No Cluster		No VM				
			LVM	2.02.17-7.19			
	Heartbeat	Bundle 2.1.3-0.9	No VM		93	93	93
			LVM	2.02.17-7.19	93	93	93
SUSE Linux Enterprise Server 10 (Service Pack 3) IA32 / x86 Processors 2.6.16.60-0.54.5-default 2.6.16.60-0.54.5-smp 2.6.16.60-0.54.5-bigsmp 2.6.16.60-0.54.5-xenpae	No Cluster		No VM				
			LVM	2.02.17-27.8			
	Heartbeat	Bundle 2.1.4-0.15.3	No VM		93	93	93
			LVM	2.02.17-27.8	93	93	93

SUSE Linux Enterprise Server 10 (Service Pack 3) Itanium / IA64 Processors 2.6.16.60-0.54.5-default	No Cluster		No VM				
			LVM	2.02.17-27.8			
	Heartbeat	Bundle 2.1.4-0.15.3	No VM		93	93	93
			LVM	2.02.17-27.8	93	93	93
SUSE Linux Enterprise Server 10 (Service Pack 3) AMD64 / EM64T Processors 2.6.16.60-0.54.5-default 2.6.16.60-0.54.5-smp 2.6.16.60-0.54.5-xen	No Cluster		No VM				
			LVM	2.02.17-27.8			
	Heartbeat	Bundle 2.1.4-0.15.3	No VM		93	93	93
			LVM	2.02.17-27.8	93	93	93
SUSE Linux Enterprise Server 10 (Service Pack 4) IA32 / x86 Processors 2.6.16.60-0.85.1-default 2.6.16.60-0.85.1-emp 2.6.16.60-0.85.1-bigmp 2.6.16.60-0.85.1-xenpae	No Cluster		No VM				
			LVM	2.02.17-7.30.1			
	Heartbeat	Bundle 2.1.4-0.24.9	No VM		93	93	93
			LVM	2.02.17-7.30.1	93	93	93
SUSE Linux Enterprise Server 10 (Service Pack 4) Itanium / IA64 Processors 2.6.16.60-0.85.1-default	No Cluster		No VM				
			LVM	2.02.17-7.30.1			
	Heartbeat	Bundle 2.1.4-0.24.9	No VM		93	93	93
			LVM	2.02.17-7.30.1	93	93	93
SUSE Linux Enterprise Server 10 (Service Pack 4) AMD64 / EM64T Processors 2.6.16.60-0.85.1-default 2.6.16.60-0.85.1-smp 2.6.16.60-0.85.1-xen	No Cluster		No VM				
			LVM	2.02.17-7.30.1			
	Heartbeat	Bundle 2.1.4-0.24.9	No VM		93	93	93
			LVM	2.02.17-7.30.1	93	93	93
SUSE Linux Enterprise Server 11 (Security Fix) IA32 / x86 Processors 2.6.27.21-0.1.2-default 2.6.27.21-0.1.2-pae 2.6.27.21-0.1.2-xen	No Cluster		No VM				
			LVM	2.02.39-17.3			
SUSE Linux Enterprise Server 11 (Security Fix) Itanium / IA64 Processors 2.6.27.21-0.1.2-default	No Cluster		No VM				
			LVM	2.02.39-17.3			
SUSE Linux Enterprise Server 11 (Security Fix) AMD64 / EM64T Processors 2.6.27.21-0.1.2-default 2.6.27.21-0.1.2-xen	No Cluster		No VM				
			LVM	2.02.39-17.3			
SUSE Linux Enterprise Server 11 (Service Pack 1) IA32 / x86 Processors 2.6.32.12-0.7.1-default 2.6.32.12-0.7.1-pae 2.6.32.12-0.7.1-xen	No Cluster		No VM				
			LVM	2.02.39-18.26.1			
SUSE Linux Enterprise Server 11 (Service Pack 1) Itanium / IA64 Processors 2.6.32.12-0.7.1-default	No Cluster		No VM				
			LVM	2.02.39-18.26.1			
SUSE Linux Enterprise Server 11 (Service Pack 1) AMD64 / EM64T Processors 2.6.32.12-0.7.1-default 2.6.32.12-0.7.1-xen	No Cluster		No VM				
			LVM	2.02.39-18.26.1			
SUSE Linux Enterprise Server 11 (Service Pack 2) IA32 / x86 Processors 3.0.13-0.27-default 3.0.13-0.27-pae	No Cluster		No VM				
			LVM	2.02.84-3.25.5			
SUSE Linux Enterprise Server 11 (Service Pack 2) Itanium / IA64 Processors 3.0.13-0.27-default	No Cluster		No VM				
			LVM	2.02.84-3.25.5			
SUSE Linux Enterprise Server 11 (Service Pack 2) AMD64 / EM64T Processors 3.0.13-0.27-default	No Cluster		No VM				
			LVM	2.02.84-3.25.5			
SUSE Linux Enterprise Server 11 (Service Pack 3) IA32 / x86 Processors 3.0.76-0.11-default 3.0.76-0.11-pae	No Cluster		No VM				
			LVM	2.02.98-0.25.3			
SUSE Linux Enterprise Server 11 (Service Pack 3) Itanium / IA64 Processors 3.0.76-0.11-default	No Cluster		No VM				
			LVM	2.02.98-0.25.3			

SUSE Linux Enterprise Server 11 (Service Pack 3) AMD64 / EM64T Processors 3.0.76-0.11-default	No Cluster		No VM					
			LVM	2.02.98-0.25.3				
Oracle Unbreakable Enterprise Kernel 5.6 x64 / x86_64 Processors 2.6.32-100.26.2.el5	No Cluster		No VM		101	101	101	
			LVM	2.02.74-5.el5	101	101	101	
Oracle Unbreakable Enterprise Kernel 5.7 IA32 / x86 Processors 2.6.32-200.13.1.el5uek	No Cluster		No VM		101	101	101	
			LVM	2.02.84-6.0.1.el5	101	101	101	
Oracle Unbreakable Enterprise Kernel 5.7 IA32 / x86 Processors 2.6.32-300.27.1.el5uek	No Cluster		No VM		101	101	101	
			LVM	2.02.84-6.0.1.el5	101	101	101	
Oracle Unbreakable Enterprise Kernel 5.7 x64 / x86_64 Processors 2.6.32-200.13.1.el5uek	No Cluster		No VM		101	101	101	
			LVM	2.02.84-6.0.1.el5	101	101	101	
Oracle Unbreakable Enterprise Kernel 5.7 x64 / x86_64 Processors 2.6.32-300.27.1.el5uek	No Cluster		No VM		101	101	101	
			LVM	2.02.84-6.0.1.el5	101	101	101	
Oracle Unbreakable Enterprise Kernel 6.2 X64 / x86_64 Processors Kernel 2.6.39-200.29.1.el6uek.x86_64	No Cluster		No VM		101	101	101	
			LVM	2.02.87-6.el6	101	101	101	
Oracle Unbreakable Enterprise Kernel 6.2 X64 / x86_64 Processors Kernel 2.6.39-200.29.2.el6uek.x86_64	No Cluster		No VM		101	101	101	
			LVM	2.02.87-6.el6	101	101	101	
Oracle Unbreakable Enterprise Kernel 6.2 IA32 / x86 Processors Kernel 2.6.39-200.29.1.el6uek.i686	No Cluster		No VM		101	101	101	
			LVM	2.02.87-6.el6	101	101	101	
Oracle Unbreakable Enterprise Kernel 6.2 IA32 / x86 Processors Kernel 2.6.39-200.29.2.el6uek.i686	No Cluster		No VM		101	101	101	
			LVM	2.02.87-6.el6	101	101	101	
Oracle Unbreakable Enterprise Kernel 6.3 IA32 / x86 Processors Kernel 2.6.39-200.24.1.el6uek.i686	No Cluster		No VM		101	101	101	
			LVM	2.02.95-10.el6	101	101	101	
Oracle Unbreakable Enterprise Kernel 6.3 X64 / x86_64 Processors Kernel 2.6.39-200.24.1.el6uek.x86_64	No Cluster		No VM		101	101	101	
			LVM	2.02.95-10.el6	101	101	101	
Oracle Enterprise Linux Server 4 (Update 5) IA32 / x86 Processors 2.6.9.55.0.0.0.2EL 2.6.9.55.0.0.0.2ELsmp 2.6.9.55.0.0.0.2ELhugevm	No Cluster		No VM					
			LVM	2.02.21-Sel4				
Oracle Enterprise Linux Server 4 (Update 5) AMD64 / EM64T Processors 2.6.9.55.0.0.0.2EL 2.6.9.55.0.0.0.2ELsmp 2.6.9.55.0.0.0.2ELlargesmp	No Cluster		No VM					
			LVM	2.02.21-Sel4				
Oracle Enterprise Linux Server 4 (Update 6) IA32 / x86 Processors 2.6.9.67.0.0.0.1EL 2.6.9.67.0.0.0.1ELsmp 2.6.9.67.0.0.0.1ELhugevm	No Cluster		No VM					
			LVM	2.02.27-2el4				
Oracle Enterprise Linux Server 4 (Update 6) AMD64 / EM64T Processors 2.6.9.67.0.0.0.1EL 2.6.9.67.0.0.0.1ELsmp 2.6.9.67.0.0.0.1ELlargesmp	No Cluster		No VM					
			LVM	2.02.27-2el4				
Oracle Enterprise Linux 5.1 IA32 / x86 Processors 2.6.18-53.el5 2.6.18-53.el5PAE	No Cluster		No VM					
			LVM	2.02.26-3.el5				
	RedHat Cluster Suite	2.0.73-1	No VM					
			LVM	2.02.26-3.el5				
Oracle Enterprise Linux 5.1 x64 / x86_64 Processors 2.6.18-53.el5	No Cluster		No VM					
			LVM	2.02.26-3.el5				
	RedHat Cluster Suite	2.0.73-1	No VM					
			LVM	2.02.26-3.el5				
Oracle Enterprise Linux 5.4 IA32 / x86 Processors	No Cluster		No VM					
			LVM	2.02.26-3.el5				

2.6.18-164.el5 2.6.18-164.el5PAE	190 GB/2GB	LVM	2.02 46-8.el5			
-------------------------------------	------------	-----	---------------	--	--	--

Oracle Enterprise Linux 5.4 x64 / x86_64 Processors 2.6.18-164.el5	No Cluster	No VM				
		LVM	2.02.46-8.el5			
Oracle Enterprise Linux 5.5 IA32 / x86 Processors 2.6.18-194.el5 2.6.18-194.el5PAE	No Cluster	No VM				
		LVM	2.02.56-8.el5			
Oracle Enterprise Linux 5.5 x64 / x86_64 Processors 2.6.18-194.el5	No Cluster	No VM				
		LVM	2.02.56-8.el5			
Oracle Enterprise Linux 5.6 IA32 / x86 Processors 2.6.18-238.el5 2.6.18-238.el5PAE	No Cluster	No VM				
		LVM	2.02.74-5.el5			
Oracle Enterprise Linux 5.6 x64 / x86_64 Processors 2.6.18-238.el5	No Cluster	No VM				
		LVM	2.02.74-5.el5			
Oracle Enterprise Linux 5.7 IA32 / x86 Processors 2.6.18-274.el5 2.6.18-274.el5PAE	No Cluster	No VM				
		LVM	2.02.84-6.el5			
Oracle Enterprise Linux 5.7 x64 / x86_64 Processors 2.6.18-274.el5	No Cluster	No VM				
		LVM	2.02.84-6.el5			

Supported	
Not Supported	

Notes	
1	VCS DiskReservation agent is not supported.
75	Only environments using HDLM ARK 6.0.1-2 are supported. HDLM ARK is bundled with LifeKeeper.
77	Only environments using HDLM ARK 6.1.0-4 are supported. HDLM ARK is bundled with LifeKeeper.
87	Only environments using HDLM ARK 6.2.2-3 are supported. HDLM ARK is bundled with LifeKeeper.
79	USP, USP V, or USP VM storage systems are not supported when QLogic HBAs are used.
84	EFI label is not supported.
90	Only environments using HDLM ARK 6.2.3-1 are supported. HDLM ARK is bundled with LifeKeeper.
91	Only environments using HDLM ARK 6.4.0-2 are supported. HDLM ARK is bundled with LifeKeeper.
93	You can also use Heartbeat together with Oracle Cluster File System 2.
94	Security Fix kernels are not supported.
95	Only environments using HDLM ARK 7.0.0-1 are supported. HDLM ARK is bundled with LifeKeeper.
96	LVM2 + boot disk environment configurations are not supported.
97	Only environments using HDLM ARK 7.2.0-1 are supported. HDLM ARK is bundled with LifeKeeper.
98	SCSI-persistent-reservation fencing is not supported.
99	This is supported in HDLM 6.6.2-01 and later.
101	SCSI environments are not supported.
103	Boot disk environments are not supported.
104	Only environments using HDLM ARK 8.1.1-5620 are supported. HDLM ARK is bundled with LifeKeeper.
105	Only environments using HDLM ARK 8.1.2-5795 are supported. HDLM ARK is bundled with LifeKeeper.

Supported Oracle 9i RAC Configurations

Operating System	Oracle Version	Cluster	Volume Manager	HDLM Version		
				7.4.1	7.5.0	7.6.0
Windows Server 2003 (x86) Standard Edition Enterprise Edition Datacenter Edition	9.2.0.4.0	OCM(Bundle)	Raw			
Windows Server 2003 (x86) R2 Standard Edition R2 Enterprise Edition R2 Datacenter Edition	9.2.0.7.0	OCM(Bundle)	Raw			
	9.2.0.8.0	OCM(Bundle)	Raw			

Operating System	Oracle Version	Cluster	Volume Manager	HDLM Version		
				7.4.1	7.5.0	7.6.0
Solaris 10 (SPARC 64 Bit)	9.2.0.8.0	SunCluster 3.1 (08/05)	Raw	6, 15, 33	6, 15, 33	6, 15, 33

Operating System	Oracle Version	Cluster	Volume Manager	HDLM Version		
				7.4.1	7.5.0	7.6.0
Red Hat AS/ES 3 (IA32 / x86) Update3 2.4.21-20.EL 2.4.21-20.ELsmp 2.4.21-20.ELhugemem	9.2.0 (Release2)	OCM (Bundle)	Raw			
Red Hat AS/ES 3 (IA32 / x86) Update5 + Security Fix 2.4.21-32.0.1.EL 2.4.21-32.0.1.ELsmp 2.4.21-32.0.1.ELhugemem	9.2.0.5.0 (Release2)	OCM (Bundle)	OCFS 1.0.14-1			
Red Hat AS/ES 4 (IA32 / x86) Update1 2.6.9-11.EL 2.6.9-11.ELsmp 2.6.9-11.ELhugemem	9.2.0.8.0 (Release2)	OCM (Bundle)	Raw			
Red Hat AS/ES 4 (IA32 / x86) Update3 2.6.9-34.EL 2.6.9-34.ELsmp 2.6.9-34.ELhugemem	9.2.0.8.0 (Release2)	OCM (Bundle)	Raw			
Red Hat AS/ES 4 (IA32 / x86) Update4 2.6.9-42.EL 2.6.9-42.ELsmp 2.6.9-42.ELhugemem	9.2.0.8.0 (Release2)	OCM (Bundle)	Raw			
SuSE 9 (x64 / x86_64) SP2 2.6.5-7.191-default 2.6.5-7.191-smp	9.2.0.8.0 (Release2)	OCM (Bundle)	Raw			
SuSE 9 (x64 / x86_64) SP3 2.6.5-7.244-default 2.6.5-7.244-smp	9.2.0.8.0 (Release2)	OCM (Bundle)	Raw			
SuSE 9 (x64 / x86_64) SP3 Errata 2.6.5-7.252-smp	9.2.0.8.0 (Release2)	OCM (Bundle)	Raw			
SuSE 9 (x64 / x86_64) SP3 Errata 2.6.5-7.283-smp	9.2.0.8.0 (Release2)	OCM (Bundle)	Raw			

Operating System	Oracle Version	Cluster	Volume Manager	HDLM Version		
				6.0	6.1	6.5.0
HP-UX 11i v1 (PA-RISC 64 Bit)	9.0.1.0.0	MC/ServiceGuard 11.13	LVM			
	9.2.0.1.0	MC/ServiceGuard 11.15	LVM			
	9.2.0.1.0	Serviceguard 11.16	LVM			
	9.2.0.5.0	Serviceguard 11.16	LVM			
HP-UX 11i v2 (Itanium / IA64) September 2004 May 2005 December 2005 March 2006 June 2006 September 2006 June 2007 December 2007 June 2008	9.2.0.6.0	Serviceguard 11.16	LVM			
	9.2.0.8.0	Serviceguard 11.16	LVM			

Supported	
Not Supported	

Notes	
6	Two-node configurations are supported.
15	RAC accesses storage by using a Oracle Solaris Cluster device ID.
33	The following configurations are not supported: - RAC using LUs with EFI labels set - RAC using ZFS

Supported Oracle 10g RAC Configurations

Operating System Name	Oracle Version	Cluster	Volume Manager	HDL Version		
				7.4.1	7.5.0	7.6.0
Windows Server 2003 (IA32 / x86)	10.1.0.2.0	CRS	ASM			
			OCFS	54	54	54
	10.1.0.3.0	CRS	ASM	8	8	8
Windows Server 2003 (X64 / x86_64)	10.1.0.5.0	CRS	Raw	8,19	8,19	8,19
	10.2.0.3.0	Clusterware	ASM	8	8	8
	10.2.0.4.0	Clusterware	ASM	8,16	8,16	8,16
Windows Server 2003 SP1 (IA32 / x86)	10.1.0.4.0	CRS	RAW	24	24	24
	10.2.0.1.0	Clusterware	OCFS	8, 54	8, 54	8, 54
			ASM+RAW	8	8	8
Windows Server 2003 SP1 (Itanium / IA64)	10.2.0.2.0	Clusterware	Raw	8	8	8
	10.2.0.3.0	Clusterware	ASM	8	8	8
	10.1.0.4.0	CRS	RAW	8,14	8,14	8,14
Windows Server 2003 SP2 (IA32 / x86)	10.1.0.5.0	CRS	RAW	8,19	8,19	8,19
	10.2.0.2.0	Clusterware	Raw	8,16	8,16	8,16
	10.2.0.3.0	Clusterware	OCFS	8, 16, 28, 54	8, 16, 28, 54	8, 16, 28, 54
Windows Server 2003 SP2 (Itanium / IA64)			ASM	8, 16, 28	8, 16, 28	8, 16, 28
			Raw	8, 16, 28	8, 16, 28	8, 16, 28
	10.1.0.5.0	CRS	Raw	8,19	8,19	8,19
Windows Server 2003 SP2 (X64 / x86_64)	10.2.0.2.0	Clusterware	Raw	8,16	8,16	8,16
	10.2.0.3.0	Clusterware	ASM	8,16,28	8,16,28	8,16,28
			ASM	8, 16, 28	8, 16, 28	8, 16, 28
Windows Server 2003 SP2 (Itanium / IA64)	10.2.0.3.0	Clusterware	Raw	8, 16, 28	8, 16, 28	8, 16, 28
			Raw	8, 16, 28	8, 16, 28	8, 16, 28
			OCFS	8, 16, 28, 54	8, 16, 28, 54	8, 16, 28, 54
Windows Server 2003 SP2 (X64 / x86_64)	10.2.0.3.0	Clusterware	ASM	8, 16	8, 16	8, 16
	10.2.0.4.0	Clusterware	ASM	8, 16	8, 16	8, 16
			Raw	8, 16	8, 16	8, 16
Windows Server 2003 R2 (IA32 / x86)	10.2.0.2.0	Clusterware	Raw + OCFS	8,16	8,16	8,16
			Raw	30, 54	30, 54	30, 54
			Raw	8,16	8,16	8,16
Windows Server 2003 R2 (X64 / x86_64)	10.2.0.3.0	Clusterware	ASM	8,16,24	8,16,24	8,16,24
	10.2.0.4.0	Clusterware	ASM	8, 16	8, 16	8, 16
	10.2.0.2.0	Clusterware	ASM	8,16	8,16	8,16
Windows Server 2003 R2 SP2 (IA32 / x86)	10.2.0.3.0	Clusterware	ASM	8,16	8,16	8,16
	10.2.0.4.0	Clusterware	ASM	8,16	8,16	8,16
			Raw	8,16	8,16	8,16
Windows Server 2003 R2 SP2 (X64 / x86_64)	10.1.0.5.0	CRS	Raw	8,19	8,19	8,19
	10.2.0.2.0	Clusterware	Raw + OCFS	8,16	8,16	8,16
			Raw	30, 54	30, 54	30, 54
Windows Server 2003 R2 SP2 (IA32 / x86)	10.2.0.3.0	Clusterware	ASM+RAW	8,16	8,16	8,16
			ASM	8,16	8,16	8,16
	10.2.0.4.0	Clusterware	ASM	8,16	8,16	8,16
Windows Server 2003 R2 SP2 (X64 / x86_64)	10.2.0.2.0	Clusterware	Raw	8,16	8,16	8,16
	10.2.0.3.0	Clusterware	OCFS	8,16, 54	8,16, 54	8,16, 54
	10.2.0.4.0	Clusterware	ASM	8,16,24	8,16,24	8,16,24
Windows Server 2008 (IA32 / x86)	10.2.0.2.0	Clusterware	ASM	8, 16	8, 16	8, 16
	10.2.0.3.0	Clusterware	RAW	8, 16	8, 16	8, 16
	10.2.0.4.0	Clusterware	ASM	8, 16	8, 16	8, 16
Windows Server 2008 (X64 / x86_64)	10.2.0.2.0	Clusterware	Raw	8, 16	8, 16	8, 16
	10.2.0.3.0	Clusterware	OCFS	8, 16, 54	8, 16, 54	8, 16, 54
	10.2.0.4.0	Clusterware	ASM	8, 16	8, 16	8, 16
Windows Server 2008 SP2 (IA32 / x86)	10.2.0.5.0	Clusterware	OCFS	8, 16, 54	8, 16, 54	8, 16, 54
Windows Server 2008 R2 (X64 / x86_64)	10.2.0.5.0	Clusterware	Raw	8, 16	8, 16	8, 16
Windows Server 2008 R2 SP1 (X64 / x86_64)	10.2.0.5.0	Clusterware	ASM	8, 16	8, 16	8, 16

Operating System Name	Oracle Version	Cluster	Volume Manager	HDL Version		
				7.4.1	7.5.0	7.6.0
Solaris 8 (SPARC 64 Bit)	10.1.0.2.0	CRS (Bundle)	ASM			
	10.2.0.1.0	Clusterware (Bundle)	ASM	8	8	8
Solaris 9 (SPARC 64 Bit)	10.1.0.2.0	CRS (Bundle)	ASM	33	33	33
	10.1.0.4.0	CRS (Bundle)	Raw	8, 33	8, 33	8, 33
	10.1.0.5.0	CRS (Bundle)	Raw	8, 23, 33	8, 23, 33	8, 23, 33
	10.2.0.1.0	Clusterware (Bundle)	ASM	8,33	8,33	8,33
		Clusterware (Bundle)	RAW	8,16,33	8,16,33	8,16,33
	10.2.0.2.0	Sun Cluster 3.1 8/05 Clusterware (Bundle)	Raw	16,25 26,27 33	16,25 26,27 33	16,25 26,27 33
	10.2.0.3.0	Clusterware (Bundle)	ASM	8,16, 33	8,16, 33	8,16, 33
	10.1.0.4.0	CRS (Bundle)	ASM	8,33	8,33	8,33
	10.1.0.5.0	CRS (Bundle)	Raw	8, 23, 33	8, 23, 33	8, 23, 33
	10.2.0.1.0	Clusterware (Bundle)	ASM	8,33	8,33	8,33
Solaris 10 (SPARC 64 Bit)	10.2.0.2.0	CRS (Bundle)	ASM	8,16,33	8,16,33	8,16,33
			RAW	8,16, 33	8,16, 33	8,16, 33
		Sun Cluster 3.1 8/05 Clusterware (Bundle)	RAW	16,25 27,29 33	16,25 27,29 33	16,25 27,29 33
			VxVM 4.1			
	10.2.0.3.0	Clusterware (Bundle)	RAW	8,16, 33	8,16, 33	8,16, 33
			ASM	8,16, 33	8,16, 33	8,16, 33
			Raw	16,25,27 29,33,34	16,25,27 29,33,34	16,25,27 29,33,34
		Sun Cluster 3.2 Clusterware 2 Node Configuration	VxVM 5.0	16,25,27,29 31,33,34 36	16,25,27,29 31,33,34 36	16,25,27,29 31,33,34 36
		Sun Cluster 3.2 Clusterware 3+ Nodes Configuration	Raw	16, 25, 26 27, 33	16, 25, 26 27, 33	16, 25, 26 27, 33
			ASM	16, 25, 26 33, 35	16, 25, 26 33, 35	16, 25, 26 33, 35
	10.2.0.4.0	Sun Cluster 3.2 Clusterware 2 Node Configuration	Raw	16,25,27, 29,33, 34	16,25,27, 29,33, 34	16,25,27, 29,33, 34
			VxVM 5.0	16,25,29 31,33, 34 36	16,25,29 31,33, 34 36	16,25,29 31,33, 34 36
		Clusterware (Bundle)	Raw	8, 16,33	8, 16,33	8, 16,33
			ASM	8, 16,33	8, 16,33	8, 16,33
		VCS 5.0 + Clusterware	VxVM 5.0	16, 25, 33 31, 36, 51, 52	16, 25, 33 31, 36, 51, 52	16, 25, 33 31, 36, 51, 52
	10.2.0.5.0	Clusterware (Bundle)	ASM	8, 16,33	8, 16,33	8, 16,33

Operating System Name	Oracle Version	Cluster	Volume Manager	HDL Version		
				7.4.2	7.5.0	7.6.0
AIX 5.3 (POWER 32 or 64 Bit)	10.1.0.5.0	CRS (Bundle)	ASM + Raw	8,30	8,30	8,30
			Raw	8,30	8,30	8,30
	10.2.0.2.0	Clusterware	ASM + Raw	8,16,30	8,16,30	8,16,30
			Raw	8,16,21,30	8,16,21,30	8,16,21,30
	10.2.0.3.0	Clusterware	ASM + Raw	8,16,23,30	8,16,23,30	8,16,23,30
AIX 6.1 (POWER 64 Bit)	10.2.0.4.0	Clusterware	ASM + Raw	8,16,30	8,16,30	8,16,30
		PowerHA6.1	LVM	8,16,32	8,16,32	8,16,32
		Clusterware	ASM + Raw	8,16	8,16	8,16
	10.2.0.5.x	PowerHA6.1	LVM	8,16,32	8,16,32	8,16,32
		Clusterware	raw	8,16	8,16	8,16

Operating System Name	Oracle Version	Cluster	Volume Manager	HDL Version		
				7.4.1	7.5.0	7.6.0
Red Hat AS/ES 3 (IA32 / x86) Update 3 2.4.21-20.EL	10.1.0.4.0	CRS (Bundle)	ASM+Raw			
Red Hat AS/ES 3 (IA32 / x86) Update 5 + Security Fix 2.4.21-32.0.1.EL 2.4.21-32.0.1.ELsmp 2.4.21-32.0.1.ELhugemem	10.2.0.1.0	Clusterware (Bundle)	ASM+Raw			
	10.2.0.2.0	Clusterware (Bundle)	ASM+Raw			
	10.2.0.4.0	Clusterware (Bundle)	ASM+Raw			
	10.1.0.4.0	CRS (Bundle)	ASM+Raw			
	10.1.0.5.0	CRS (Bundle)	OCFS 1.0.14-1			
Red Hat AS/ES 3 (IA32 / x86) Update 8 2.4.21-47.EL 2.4.21-47.ELsmp 2.4.21-47.ELhugemem	10.2.0.1.0	Clusterware (Bundle)	ASM+Raw			
	10.2.0.2.0	Clusterware (Bundle)	ASM+Raw			
	10.2.0.3.0	Clusterware (Bundle)	ASM+Raw			
	10.2.0.4.0	Clusterware (Bundle)	ASM+Raw			
Red Hat AS/ES 3 (IA32 / x86) Update 9 2.4.21-50.EL 2.4.21-50.ELsmp 2.4.21-50.ELhugemem	10.2.0.4.0	Clusterware (Bundle)	ASM+Raw			
Red Hat AS/ES 4 (IA32 / x86) Update 1 2.6.9-11.ELsmp	10.2.0.2.0	Clusterware (Bundle)	ASM+ASMLib	8, 16, 18	8, 16, 18	8, 16, 18
Red Hat AS/ES 4 (IA32 / x86) Update 1 2.6.9-11.EL 2.6.9-11.ELsmp 2.6.9-11.ELhugemem	10.1.0.5.0	CRS (Bundle)	ASM+ASMLib	8, 18	8, 18	8, 18
	10.2.0.2.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
	10.2.0.3.0	Clusterware (Bundle)	Raw	2,8,16	2,8,16	2,8,16
	10.2.0.4.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
	10.2.0.5.0+ Patch 11066597	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
Red Hat AS/ES 4 (IA32 / x86) Update 3 2.6.9-34.EL 2.6.9-34.ELsmp 2.6.9-34.ELhugemem	10.1.0.5.0	CRS (Bundle)	ASM+ASMLib	8, 18	8, 18	8, 18
	10.2.0.2.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
	10.2.0.3.0	Clusterware (Bundle)	Raw	2,8,16	2,8,16	2,8,16
	10.2.0.4.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
	10.2.0.5.0+ Patch 11066597	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
Red Hat AS/ES 4 (IA32 / x86) Update 3 + Security Fix 2.6.9-34.0.2.EL 2.6.9-34.0.2.ELsmp 2.6.9-34.0.2.ELhugemem	10.2.0.4.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
Red Hat AS/ES 4 (IA32 / x86) Update 4 2.6.9-42.EL 2.6.9-42.ELsmp 2.6.9-42.ELhugemem	10.2.0.5.0+ Patch 11066597	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
Red Hat AS/ES 4 (IA32 / x86) Update 4 + Security Fix 2.6.9-42.0.3.EL 2.6.9-42.0.3.ELsmp 2.6.9-42.0.3.ELhugemem	10.1.0.5.0	CRS (Bundle)	ASM+ASMLib	8, 18	8, 18	8, 18
	10.2.0.2.0	Clusterware (Bundle)	Raw	2,8,16	2,8,16	2,8,16
	10.2.0.3.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
	10.2.0.4.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
	10.2.0.5.0+ Patch 11066597	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
Red Hat AS/ES 4 (X64 / x86_64) Update 1 2.6.9-11.EL 2.6.9-11.ELsmp	10.2.0.2.0	Clusterware (Bundle)	ASM + Raw	2, 8, 16	2, 8, 16	2, 8, 16
		Clusterware (Bundle)	Raw	2, 8, 16	2, 8, 16	2, 8, 16
	10.2.0.3.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
		Clusterware (Bundle)	Raw	2, 8, 16	2, 8, 16	2, 8, 16
		Clusterware (Bundle)	ASM+ASMLib	8, 16, 18	8, 16, 18	8, 16, 18
		Clusterware (Bundle)	ASM + Raw	2, 8, 16	2, 8, 16	2, 8, 16
	10.2.0.4.0	Clusterware (Bundle)	ASM + ASMLib	8, 16, 18	8, 16, 18	8, 16, 18
		Clusterware (Bundle)	Raw	2, 8, 16	2, 8, 16	2, 8, 16
	10.2.0.5.0+ Patch 11066597	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
Red Hat AS/ES 4 (X64 / x86_64) Update 3 2.6.9-34.EL 2.6.9-34.ELsmp 2.6.9-34.ELlargesmp	10.2.0.2.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
		Clusterware (Bundle)	Raw	2, 8, 16	2, 8, 16	2, 8, 16
		Clusterware (Bundle)	Raw	2, 8, 16	2, 8, 16	2, 8, 16
	10.2.0.3.0	Clusterware (Bundle)	ASM+ASMLib	8, 16, 18	8, 16, 18	8, 16, 18
		Clusterware (Bundle)	ASM+Raw	2, 8, 16	2, 8, 16	2, 8, 16
		Clusterware (Bundle)	ASM + Raw	2, 8, 16	2, 8, 16	2, 8, 16
		Clusterware (Bundle)	ASM + ASMLib	8, 16, 18	8, 16, 18	8, 16, 18
		Clusterware (Bundle)	Raw	2, 8, 16	2, 8, 16	2, 8, 16
	10.2.0.4.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16

Red Hat AS/ES 4 (X64 / x86_64) Update 3 + Security Fix 2.6.9-34.0.2.EL 2.6.9-34.0.2.ELsmp 2.6.9-34.0.2.ELlargesmp	10.2.0.2.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
		Clusterware (Bundle)	Raw	2, 8, 16	2, 8, 16	2, 8, 16
	10.2.0.3.0	Clusterware (Bundle)	Raw	2, 8, 16	2, 8, 16	2, 8, 16
		Clusterware (Bundle)	ASM+ASMLib	8, 16, 18	8, 16, 18	8, 16, 18
		Clusterware (Bundle)	ASM+Raw	2, 8, 16	2, 8, 16	2, 8, 16
		Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
	10.2.0.4.0	Clusterware (Bundle)	ASM + ASMLib	8, 16,18	8, 16,18	8, 16,18
		Clusterware (Bundle)	Raw	2, 8, 16	2, 8, 16	2, 8, 16
		Clusterware (Bundle)	Raw	2, 8, 16	2, 8, 16	2, 8, 16
	10.2.0.5.0+ Patch 11066597	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
Red Hat AS/ES 4 (X64 / x86_64) Update 4 2.6.9-42.EL 2.6.9-42.ELsmp 2.6.9-42.ELlargesmp	10.2.0.2.0	Clusterware (Bundle)	Raw	2, 8, 16	2, 8, 16	2, 8, 16
		Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
		Clusterware (Bundle)	ASM+ASMLib	8, 16, 18	8, 16, 18	8, 16, 18
	10.2.0.3.0	Clusterware (Bundle)	ASM+Raw	2, 8, 16	2, 8, 16	2, 8, 16
		Clusterware (Bundle)	Raw	2, 8, 16	2, 8, 16	2, 8, 16
		Clusterware (Bundle)	Raw	2, 8, 16	2, 8, 16	2, 8, 16
	10.2.0.4.0	Clusterware (Bundle)	ASM + Raw	2, 8, 16	2, 8, 16	2, 8, 16
		Clusterware (Bundle)	ASM + ASMLib	8, 16 18	8, 16 18	8, 16 18
		Clusterware (Bundle)	Raw	2, 8, 16	2, 8, 16	2, 8, 16
	10.2.0.5.0+ Patch 11066597	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
Red Hat AS/ES 4 (X64 / x86_64) Update 4 + Security Fix 2.6.9-42.0.3.EL 2.6.9-42.0.3.ELsmp 2.6.9-42.0.3.ELlargesmp	10.2.0.2.0	Clusterware (Bundle)	Raw	2, 8, 16	2, 8, 16	2, 8, 16
		Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
	10.2.0.3.0	Clusterware (Bundle)	ASM+ASMLib	8, 16, 18	8, 16, 18	8, 16, 18
		Clusterware (Bundle)	ASM+Raw	2, 8, 16	2, 8, 16	2, 8, 16
		Clusterware (Bundle)	Raw	2, 8, 16	2, 8, 16	2, 8, 16
	10.2.0.4.0	Clusterware (Bundle)	ASM + Raw	2, 8, 16	2, 8, 16	2, 8, 16
		Clusterware (Bundle)	ASM + ASMLib	8, 16 18	8, 16 18	8, 16 18
		Clusterware (Bundle)	Raw	2, 8, 16	2, 8, 16	2, 8, 16
	10.2.0.5.0+ Patch 11066597	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
	10.2.0.1.0	Clusterware (Bundle)	ASM+Raw	2,8	2,8	2,8
Red Hat AS/ES 4 (Itanium / IA64) Update1 2.6.9-11.EL	10.2.0.2.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
	10.2.0.3.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
		Clusterware (Bundle)	ASM+ASMLib	8,16,18	8,16,18	8,16,18
		Clusterware (Bundle)	Raw	2,8,16	2,8,16	2,8,16
Red Hat AS/ES 4 (Itanium / IA64) Update2 2.6.9-22.EL	10.2.0.1.0	Clusterware (Bundle)	ASM+Raw	2,8	2,8	2,8
	10.2.0.2.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
	10.2.0.3.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
		Clusterware (Bundle)	ASM+ASMLib	8,16,18	8,16,18	8,16,18
		Clusterware (Bundle)	Raw	2,8,16	2,8,16	2,8,16
Red Hat AS/ES 4 (Itanium / IA64) Update 3 2.6.9-34.EL	10.2.0.1.0	Clusterware (Bundle)	ASM+Raw	2,8	2,8	2,8
	10.2.0.2.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
	10.2.0.3.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
		Clusterware (Bundle)	ASM+ASMLib	8,16,18	8,16,18	8,16,18
		Clusterware (Bundle)	Raw	2,8,16	2,8,16	2,8,16
Red Hat AS/ES 4 (Itanium / IA64) Update 3 + Security Fix 2.6.9-34.0.2.EL	10.2.0.1.0	Clusterware (Bundle)	ASM+Raw	2,8	2,8	2,8
	10.2.0.2.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
	10.2.0.3.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
		Clusterware (Bundle)	ASM+ASMLib	8,16,18	8,16,18	8,16,18
		Clusterware (Bundle)	Raw	2,8,16	2,8,16	2,8,16
Red Hat AS/ES 4 (Itanium / IA64) Update 4 2.6.9-42.EL	10.2.0.1.0	Clusterware (Bundle)	ASM+Raw	2,8	2,8	2,8
	10.2.0.2.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
	10.2.0.3.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
		Clusterware (Bundle)	ASM+ASMLib	8,16,18	8,16,18	8,16,18
		Clusterware (Bundle)	Raw	2,8,16	2,8,16	2,8,16
Red Hat AS/ES 4 (Itanium / IA64) Update 4 + Security Fix 2.6.9-42.0.3.EL	10.2.0.1.0	Clusterware (Bundle)	ASM+Raw	2,8	2,8	2,8
	10.2.0.2.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
	10.2.0.3.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
		Clusterware (Bundle)	Raw	2,8,16	2,8,16	2,8,16
		Clusterware (Bundle)	ASM+ASMLib	8,16,18	8,16,18	8,16,18
Red Hat AS/ES 4.5 (IA32 / x86) 2.6.9-55.EL 2.6.9-55.ELsmp 2.6.9-55.ELhugeem	10.1.0.5.0	Clusterware (Bundle)	ASM+ASMLib	8, 18	8, 18	8, 18
	10.2.0.2.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
		Clusterware (Bundle)	Raw	2,8,16	2,8,16	2,8,16
		Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
	10.2.0.3.0	Clusterware (Bundle)	ASM+ASMLib	8,16,18	8,16,18	8,16,18
	10.2.0.4.0	Clusterware (Bundle)	ASM + Raw	2,8,16	2,8,16	2,8,16
	10.2.0.5.0+ Patch 11066597	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
Red Hat AS/ES 4.5 (Itanium) 2.6.9-55.EL 2.6.9-55.ELlargesmp	10.2.0.1.0	Clusterware (Bundle)	ASM+Raw	2,8	2,8	2,8
	10.2.0.2.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
	10.2.0.3.0	Clusterware (Bundle)	ASM+ASMLib	8,16 18	8,16 18	8,16 18
		Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
		Clusterware (Bundle)	Raw	2,8,16	2,8,16	2,8,16

Page 126

Page 127

Page 128

Red Hat Linux 5.10 (IA32) 2.6.18-371.el5 2.6.18-371.el5PAE	10.2.0.4.0	Clusterware (Bundle)	ASM + Raw	2,8,16,55	2,8,16,55	2,8,16,55
		Clusterware (Bundle)	RAW	2,8,16,55	2,8,16,55	2,8,16,55
		Clusterware (Bundle)	OCFS 2	8,16,53,55	8,16,53,55	8,16,53,55
Red Hat Linux 5.10 (x64) 2.6.18-371.el5	10.2.0.5.0+ Patch 11066597	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
	10.2.0.1.0	Clusterware (Bundle)	ASM+Raw	2,8,55	2,8,55	2,8,55
	10.2.0.3.0	Clusterware (Bundle)	ASM+ASMLib	8, 16, 18, 55	8, 16, 18, 55	8, 16, 18, 55
		Clusterware (Bundle)	RAW	2,8,16,55	2,8,16,55	2,8,16,55
		Clusterware (Bundle)	RAW	2,8,16,55	2,8,16,55	2,8,16,55
	10.2.0.4.0	Clusterware (Bundle)	ASM + Raw	2,8,16,55	2,8,16,55	2,8,16,55
		Clusterware (Bundle)	ASM+ASMLib	8, 16, 18, 55	8, 16, 18, 55	8, 16, 18, 55
		Clusterware (Bundle)	OCFS 2	8,16,53,55	8,16,53,55	8,16,53,55
	10.2.0.5.0+ Patch 11066597	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
SuSE Linux Enterprise Server 9 (X64 / x86_64) Service Pack 3 2.6.5-7.244-defaults 2.6.5-7.244-smp	10.2.0.2.0	Clusterware (Bundle)	ASM+Raw			
SuSE Linux Enterprise Server 10 (IA32 / x86) 2.6.16.21-0.8-default 2.6.16.21-0.8-smp 2.6.16.21-0.8-bigsmp	10.2.0.3.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
SuSE Linux Enterprise Server 10 (IA32 / x86) Security Fix 2.6.16.27-0.9-default 2.6.16.27-0.9-smp 2.6.16.27-0.9-bigsmp	10.2.0.3.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
SuSE Linux Enterprise Server 10 (IA32 / x86) Service Pack 1 2.6.16.46-0.14-default 2.6.16.46-0.14-smp 2.6.16.46-0.14-bigsmp	10.2.0.3.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
SuSE Linux Enterprise Server 10 (x64 / x86_64) 2.6.16.21-0.8-default 2.6.16.21-0.8-smp	10.2.0.3.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
SuSE Linux Enterprise Server 10 (x64 / x86_64) Security Fix 2.6.16.27-0.9-default 2.6.16.27-0.9-smp	10.2.0.3.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16
SuSE Linux Enterprise Server 10 (x64 / x86_64) Service Pack 1 Security Fix 2.6.16.46-0.14-default 2.6.16.46-0.14-smp	10.2.0.3.0	Clusterware (Bundle)	ASM+Raw	2,8,16	2,8,16	2,8,16

Operating System Name	Oracle Version	Cluster	Volume Manager	HDL Version		
				4.0	4.1	6.5.0
HP-UX 11iv1 (PA-RISC 64 Bit)	10.1.0.3.0	Serviceguard 11.16 CRS (Bundle)	LVM	8	8	8
HP-UX 11iv2 (Itanium / IA64) September 2004 May 2005 December 2005 March 2006 June 2006 September 2006 June 2007 December 2007 June 2008	10.2.0.1.0	Serviceguard 11.16 Clusterware (Bundle)	LVM	8	8	8
	10.2.0.2.0	Serviceguard 11.17 Clusterware (Bundle)	LVM	8,16	8,16	8,16
		Clusterware (Bundle)	ASM	8, 16 23	8, 16 23	8, 16 23
	10.2.0.3.0	Clusterware (Bundle)	ASM	8, 16 23	8, 16 23	8, 16 23
		Serviceguard 11.17 Clusterware (Bundle)	LVM	8,16	8,16	8,16
		Serviceguard 11.18 Clusterware (Bundle)	LVM	8,16	8,16	8,16
HP-UX 11iv2 (PA-RISC) September 2004 May 2005 December 2005 March 2006 June 2006 September 2006 June 2007 December 2007 June 2008	10.2.0.1.0	Serviceguard 11.16 Clusterware (Bundle)	LVM	8	8	8

Supported	
Not Supported	

Notes	
2	/dev/raw/rawxx raw devices can be used on Linux.
8	When using HDLM with Oracle 10g RAC 10.1.0.3.0 and later versions, we recommend that you set the I/O timeout period (MISSCOUNT) of the voting disk to a value higher than the number of paths to the voting disk x yy seconds (yy is 60 for RAID models, and 30 for DF models.). If the MISSCOUNT value is smaller than the recommended value and an I/O timeout occurs on the path for the voting disk, RAC will recognize the I/O timeout before HDLM can use all paths by performing a failover. For inquiries about changing the MISSCOUNT value, contact Oracle Support Services.
11	Edit the /etc/ocfs.conf file and change the parameter value of comm_voting to 0.
14	Apply patch 13.
16	Set the DISKTIMEOUT value as follows when using Oracle RAC 10g 10.2.0.2.0 or later versions: DISKTIMEOUT = 60 x Number of paths Do not modify the DISKTIMEOUT value if the result of the above is lower than the default value of 200.
17	HDLM for Linux 5.7.0-02 or later is required.
18	Use ASMLib (ASMLib kernel driver).
19	Apply patch 5.
20	Only available when using Red Hat AS/ES 3 (IA32 / x86) Update5 + Security Fix: 2.4.21-32.0.1.EL
21	Use TechnologyLevel 05 or later.
23	In this configuration, Oracle bug #5131219 occurs. For this reason the customer's consent is required for the bug below to be treated as a restriction. - When a path failure occurs on a node, if node 1 (the node operated by the database instance whose instance number is 1) shuts down, the node where the path failure occurred might incorrectly reboot.
24	Apply patch 6.
25	For the I/O timeout value (MISSCOUNT), set whichever of the following has the higher value: - 600 seconds (the default value of Oracle Clusterware in a Oracle Cluster environment) - Number of paths to the voting disk x yy seconds (yy is 60 for RAID models, and 30 for DF models.) For inquiries about changing the MISSCOUNT value, contact Oracle Support Services.
26	Only configurations of three or more nodes are supported.
27	RAC accesses storage by using a Oracle Solaris Cluster device ID.
28	Apply patch 2.
29	Supports only 2 node configuration.
30	When using TechnologyLevel05, apply APAR IY92037.
31	Volumes created by the VxVM
32	When using the MNDHB functionality with HDLM, create MNDHB LVs on the HDLM device by using the following procedure: 1. Create a concurrent VG on the HDLM device that corresponds to the LU that uses the MNDHB functionality. 2. Create an MNDHB LV on the concurrent VG that you created in step 1. For details on how to create the MNDHB LV, see the HACMP/PowetrHA documentation.
33	The following configurations are not supported: - RAC using LUs with EFI labels set - RAC using ZFS
34	Only "pathcount" is supported for a setting of SCSI protocol (fencing protocol) of storage device. For the setting of SCSI protocol (fencing protocol) of storage device, refer to the manual of Oracle Solaris Cluster.
35	ASM accesses storage by using a Oracle Solaris Cluster device ID.
36	Apply MP1 or later.
51	When using parallel service groups, activate I/O fencing.
52	The following storage systems are supported: - USP/NSC/USP V/USP VM - HP XP10000/XP12000/XP20000/XP24000/SVS When using I/O fencing function, enable "host mode option 02 (Veritas Database Edition/Advanced Cluster)" on the storage side. When not using I/O fencing function, do not enable "host mode option 02 (Veritas Database Edition/Advanced Cluster)" on the storage side. Also, make sure that hosts using I/O fencing are not in the same host group as any hosts that are not using I/O fencing.
53	When you use Oracle Cluster file System 2 in an Oracle RAC environment, set the O2CB_HEARTBEAT_THRESHOLD parameter in the /etc/sysconfig/o2cbf file to the following value: (Number of paths connected to Oracle Cluster file System 2 x yy seconds / 2) + 1 (yy is 60 for RAID models, and 30 for DF models.)
54	HDLM for Windows does not support configurations where Oracle RAC is installed on OCFS to share Oracle Home with multiple nodes.
55	ISCSI environments are not supported.

Supported Oracle 11g RAC Configurations

Operating System Name	Oracle Version	Cluster	Volume Manager	HDL Version		
				7.4.1	7.5.0	7.6.0
Windows 2003 SP1 (IA32 / x86)	11.1.0.6.0	Oracle Clusterware	ASM	1,3	1,3	1,3
			OCFS	1,3,18	1,3,18	1,3,18
			Raw	1,3	1,3	1,3
Windows 2003 SP2 (IA32 / x86)	11.1.0.6.0	Oracle Clusterware	ASM	1,3	1,3	1,3
			OCFS	1,3,18	1,3,18	1,3,18
			Raw	1,3	1,3	1,3
Windows 2003 R2 (IA32 / x86)	11.1.0.7.0	Oracle Clusterware	Raw	1,3	1,3	1,3
	11.1.0.6.0	Oracle Clusterware	ASM	1,3	1,3	1,3
			OCFS	1,3,18	1,3,18	1,3,18
Windows 2003 R2 SP2 (IA32 / x86)	11.1.0.6.0	Oracle Clusterware	Raw	1,3	1,3	1,3
			ASM	1,3	1,3	1,3
			OCFS	1,3,18	1,3,18	1,3,18
Windows 2003 SP2 (x64 / x86_64)	11.1.0.6.0	Oracle Clusterware	Raw	1,3	1,3	1,3
			ASM	1,3	1,3	1,3
			OCFS	1,3,18	1,3,18	1,3,18
Windows 2003 R2 (x64 / x86_64)	11.1.0.6.0	Oracle Clusterware	Raw	1,3	1,3	1,3
			ASM	1,3	1,3	1,3
			OCFS	1,3,18	1,3,18	1,3,18
Windows 2003 R2 SP2 (x64 / x86_64)	11.1.0.6.0	Oracle Clusterware	Raw	1,3	1,3	1,3
			OCFS	1,3,18	1,3,18	1,3,18
			ASM	1,3	1,3	1,3
Windows 2003 R2 SP2 (x64 / x86_64)	11.1.0.7.0	Oracle Clusterware	Raw	1,3	1,3	1,3
			ASM	1,3	1,3	1,3
			OCFS	1,3,18	1,3,18	1,3,18
Windows 2008 (IA32 / x86)	11.2.0.3.0	Oracle Clusterware	Raw	1,3	1,3	1,3
			ASM	1,3	1,3	1,3
			OCFS	1,3,18	1,3,18	1,3,18
Windows 2008 SP2 (IA32 / x86)	11.2.0.3.0	Oracle Clusterware	Raw	1,3	1,3	1,3
			ASM	1,3	1,3	1,3
			OCFS	1,3,18	1,3,18	1,3,18
Windows 2008 (x64 / x86_64)	11.1.0.7.0	Oracle Clusterware	Raw	1,3	1,3	1,3
			ASM	1,3	1,3	1,3
			OCFS	1,3,18	1,3,18	1,3,18
Windows 2008 SP2 (x64 / x86_64)	11.2.0.1.0	Oracle Grid Infrastructure	Raw	1,3	1,3	1,3
			ASM	1,3	1,3	1,3
			OCFS	1,3,18	1,3,18	1,3,18
Windows 2008 R2 (x64 / x86_64)	11.2.0.1.0	Oracle Grid Infrastructure	Raw	1,3	1,3	1,3
			ASM	1,3	1,3	1,3
			OCFS	1,3,18	1,3,18	1,3,18
Windows 2008 R2 (x64 / x86_64)	11.2.0.2.0	Oracle Grid Infrastructure	Raw	1,3	1,3	1,3
			ASM	1,3	1,3	1,3
			OCFS	1,3,18	1,3,18	1,3,18
Windows 2008 R2 SP1 (x64 / x86_64)	11.2.0.1.0	Oracle Grid Infrastructure	Raw	1,3	1,3	1,3
			ASM	1,3	1,3	1,3
			OCFS	1,3,18	1,3,18	1,3,18
Windows 2008 R2 SP1 (x64 / x86_64)	11.2.0.3.0	Oracle Grid Infrastructure	Raw	1,3	1,3	1,3
			ASM	1,3	1,3	1,3
			OCFS	1,3,18	1,3,18	1,3,18

Operating System Name	Oracle Version	Cluster	Volume Manager	HDLM Version		
				7.4.1	7.5.0	7.6.0
Solaris 10 (SPARC)	11.1.0.6.0	Oracle Clusterware	Raw	1,3,9	1,3,9	1,3,9
			ASM	1,3,9	1,3,9	1,3,9
		Sun Cluster 3.1 08/05 + Oracle Clusterware	Raw	3,6,7,8,9	3,6,7,8,9	3,6,7,8,9
			ASM	3,6,8,9,11	3,6,8,9,11	3,6,8,9,11
		Sun Cluster 3.2 + Oracle Clusterware	Raw	3,6,7,8,9,10	3,6,7,8,9,10	3,6,7,8,9,10
			ASM	3,6,8,9,10,11	3,6,8,9,10,11	3,6,8,9,10,11
	11.1.0.7.0	Oracle Clusterware	Raw	1,3,9	1,3,9	1,3,9
			ASM	1,3,9	1,3,9	1,3,9
		Sun Cluster 3.2 + Oracle Clusterware	VxVM 5.0 MP3	3,6,8,9, 10,15	3,6,8,9, 10,15	3,6,8,9, 10,15
	11.2.0.1.0	Oracle Grid Infrastructure	ASM	1,3,9	1,3,9	1,3,9
		Sun Cluster 3.2 Oracle Grid Infrastructure	ASM	3,6,8,9, 10	3,6,8,9, 10	3,6,8,9, 10
			ASM	1,3,9	1,3,9	1,3,9
	11.2.0.2.0	Oracle Grid Infrastructure	ASM	1,3,9	1,3,9	1,3,9
		Sun Cluster 3.3 Oracle Grid Infrastructure	ASM	3,6,8,9, 10	3,6,8,9, 10	3,6,8,9, 10
			ASM	1,3,9	1,3,9	1,3,9
Solaris 11 (SPARC)	11.2.0.3.0	Oracle Grid Infrastructure	ASM	1,3,9	1,3,9	1,3,9
Solaris 11.1 (SPARC)	11.2.0.3.0	Oracle Grid Infrastructure	ASM	1,3,9	1,3,9	1,3,9

Operating System Name	Oracle Version	Cluster	Volume Manager	HDLM Version		
				7.4.2	7.5.0	7.6.0
AIX 5.3 (POWER 32 or 64 Bit)	11.1.0.6.0	Oracle Clusterware	ASM+Raw	1,3,4	1,3,4	1,3,4
			Raw	1,3,4	1,3,4	1,3,4
	11.1.0.7.0	Oracle Clusterware	ASM+Raw	1,3,4	1,3,4	1,3,4
	11.2.0.3.0	Oracle Clusterware	ASM+Raw	1,3,4	1,3,4	1,3,4
AIX 6.1 (POWER 64 Bit)	11.2.0.2.0	Oracle Grid Infrastructure	ASM+Raw	1,3	1,3	1,3
	11.2.0.3.0	Oracle Grid Infrastructure	ASM+Raw	1,3	1,3	1,3
		PowerHA 6.1+Clusterware	LVM	1,3	1,3	1,3
AIX 7.1 (POWER 64 Bit)	11.2.0.2.0	Oracle Grid Infrastructure	ASM+Raw	1,3	1,3	1,3
	11.2.0.3.0	Oracle Grid Infrastructure	ASM+Raw	1,3	1,3	1,3

Operating System Name	Oracle Version	Cluster	Volume Manager	HDLM Version		
				7.4.2	7.5.0	7.6.0
Red Hat Linux 4 Update 1 (IA32 / x86) 2.6.9-11.EL 2.6.9-11.ELsmp 2.6.9-11.ELhugemem	11.1.0.6.0	Oracle Clusterware	ASM + Raw	1,3,13	1,3,13	1,3,13
			ASM + ASMLib	1,3,12	1,3,12	1,3,12
			OCFS2	1,3,14	1,3,14	1,3,14
	11.1.0.7.0	Oracle Clusterware	Raw	1,3,13	1,3,13	1,3,13
			Raw	1,3,13	1,3,13	1,3,13
			Raw	1,3,13	1,3,13	1,3,13
Red Hat Linux 4 Update 3 (IA32 / x86) 2.6.9-34.EL 2.6.9-34.ELsmp 2.6.9-34.ELhugemem 2.6.9-34.0.2.EL 2.6.9-34.0.2.ELsmp 2.6.9-34.0.2.ELhugemem	11.1.0.6.0	Oracle Clusterware	ASM + Raw	1,3,13	1,3,13	1,3,13
			ASM + ASMLib	1,3,12	1,3,12	1,3,12
			OCFS2	1,3,14	1,3,14	1,3,14
	11.1.0.7.0	Oracle Clusterware	Raw	1,3,13	1,3,13	1,3,13
			Raw	1,3,13	1,3,13	1,3,13
			Raw	1,3,13	1,3,13	1,3,13
Red Hat Linux 4 Update 4 (IA32 / x86) 2.6.9-42.EL 2.6.9-42.ELsmp 2.6.9-42.ELhugemem 2.6.9-42.0.3.EL 2.6.9-42.0.3.ELsmp 2.6.9-42.0.3.ELhugemem	11.1.0.6.0	Oracle Clusterware	ASM + Raw	1,3,13	1,3,13	1,3,13
			ASM + ASMLib	1,3,12	1,3,12	1,3,12
			OCFS2	1,3,14	1,3,14	1,3,14
	11.1.0.7.0	Oracle Clusterware	Raw	1,3,13	1,3,13	1,3,13
			Raw	1,3,13	1,3,13	1,3,13
			Raw	1,3,13	1,3,13	1,3,13
Red Hat Linux 4 Update 1 (x64 / x86_64) 2.6.9-11.EL 2.6.9-11.ELsmp	11.1.0.6.0	Oracle Clusterware	ASM + Raw	1,3,13	1,3,13	1,3,13
			ASM + ASMLib	1,3,12	1,3,12	1,3,12
			OCFS2	1,3,14	1,3,14	1,3,14
	11.1.0.7.0	Oracle Clusterware	Raw	1,3,13	1,3,13	1,3,13
			Raw	1,3,13	1,3,13	1,3,13
			Raw	1,3,13	1,3,13	1,3,13
Red Hat Linux 4 Update 3 (x64 / x86_64) 2.6.9-34.EL 2.6.9-34.ELsmp 2.6.9-34.ELlargesmp 2.6.9-34.0.2.EL 2.6.9-34.0.2.ELsmp 2.6.9-34.0.2.ELlargesmp	11.1.0.6.0	Oracle Clusterware	ASM + Raw	1,3,13	1,3,13	1,3,13
			ASM + ASMLib	1,3,12	1,3,12	1,3,12
			OCFS2	1,3,14	1,3,14	1,3,14
	11.1.0.7.0	Oracle Clusterware	Raw	1,3,13	1,3,13	1,3,13
			Raw	1,3,13	1,3,13	1,3,13
			Raw	1,3,13	1,3,13	1,3,13

Page 133

Red Hat Linux 5 (IA32 / x86) 2.6.18-8.el5 2.6.18-8.el5PAE	11.1.0.6.0	Oracle Clusterware	ASM + Raw	1.3.13	1.3.13	1.3.13
			ASM + ASMLib	1.3.12	1.3.12	1.3.12
			OCFS2	1.3.14	1.3.14	1.3.14
			ASM + Raw	1.3.13	1.3.13	1.3.13
	11.1.0.7.0	Oracle Clusterware	ASM + ASMLib	1.3.12	1.3.12	1.3.12
			OCFS2	1.3.14	1.3.14	1.3.14
			Raw	1.3.13	1.3.13	1.3.13
			ASM + ASMLib	1.3.12	1.3.12	1.3.12
	11.1.0.6.0	Oracle Clusterware	Raw	1.3.13	1.3.13	1.3.13
			ASM + Raw	1.3.13	1.3.13	1.3.13
			Raw	1.3.13	1.3.13	1.3.13
			ASM + Raw	1.3.13	1.3.13	1.3.13
Red Hat Linux 5 (x64 / x86_64) 2.6.18-8.el5	11.1.0.7.0	Oracle Clusterware	ASM + ASMLib	1.3.12	1.3.12	1.3.12
			OCFS2	1.3.14	1.3.14	1.3.14
			Raw	1.3.13	1.3.13	1.3.13
			ASM + Raw	1.3.13	1.3.13	1.3.13
	11.1.0.7.0 + Patch 8833297	Oracle Clusterware	ASM + ASMLib	1.3.12	1.3.12	1.3.12
			OCFS2	1.3.14	1.3.14	1.3.14
			Raw	1.3.13	1.3.13	1.3.13
			ASM + Raw	1.3.13	1.3.13	1.3.13
Red Hat Linux 5.1 (IA32 / x86) 2.6.18-53.el5 2.6.18-53.el5PAE	11.1.0.6.0	Oracle Clusterware	ASM + Raw	1.3.13	1.3.13	1.3.13
			OCFS2	1.3.14	1.3.14	1.3.14
			Raw	1.3.13	1.3.13	1.3.13
			ASM + ASMLib	1.3.12	1.3.12	1.3.12
	11.1.0.7.0	Oracle Clusterware	ASM + Raw	1.3.13	1.3.13	1.3.13
			OCFS2	1.3.14	1.3.14	1.3.14
			Raw	1.3.13	1.3.13	1.3.13
			ASM + ASMLib	1.3.12	1.3.12	1.3.12
	11.1.0.7.0 + Patch 8833297	Oracle Clusterware	OCFS2	1.3.14	1.3.14	1.3.14
			Raw	1.3.13	1.3.13	1.3.13
			ASM + Raw	1.3.13	1.3.13	1.3.13
			Raw	1.3.13	1.3.13	1.3.13
Red Hat Linux 5.2 (x86/ IA32) Kernels 2.6.18-92.el5 2.6.18-92.el5PAE	11.1.0.6.0	Oracle Clusterware	OCFS2	1.3.14	1.3.14	1.3.14
			Raw	1.3.13	1.3.13	1.3.13
			ASM + Raw	1.3.13	1.3.13	1.3.13
			ASM + ASMLib	1.3.12	1.3.12	1.3.12
	11.1.0.7.0	Oracle Clusterware	OCFS2	1.3.14	1.3.14	1.3.14
			Raw	1.3.13	1.3.13	1.3.13
			ASM + Raw	1.3.13	1.3.13	1.3.13
			Raw	1.3.13	1.3.13	1.3.13
	11.2.0.1.0	Oracle Grid Infrastructure	ASM + Raw	1.3.13,16,17	1.3.13,16,17	1.3.13,16,17
			ASM + Raw	1.3.13,16,17	1.3.13,16,17	1.3.13,16,17
			Raw	1.3.13	1.3.13	1.3.13
			ASM + ASMLib	1.3.12	1.3.12	1.3.12
	11.1.0.6.0	Oracle Clusterware	Raw	1.3.13	1.3.13	1.3.13
			ASM + Raw	1.3.13	1.3.13	1.3.13
			Raw	1.3.13	1.3.13	1.3.13
			ASM + ASMLib	1.3.12	1.3.12	1.3.12
	11.1.0.7.0	Oracle Clusterware	OCFS2	1.3.14	1.3.14	1.3.14
			Raw	1.3.13	1.3.13	1.3.13
			ASM + Raw	1.3.13	1.3.13	1.3.13
			Raw	1.3.13	1.3.13	1.3.13
Red Hat Linux 5.2 (x64 / x86_64) Kernels 2.6.18-92.el5	11.1.0.7.0 + Patch 8833297	Oracle Clusterware	ASM + ASMLib	1.3.12	1.3.12	1.3.12
			OCFS2	1.3.14	1.3.14	1.3.14
			Raw	1.3.13	1.3.13	1.3.13
			ASM + Raw	1.3.13	1.3.13	1.3.13
	11.2.0.1.0	Oracle Grid Infrastructure	ASM + Raw	1.3.13,16,17	1.3.13,16,17	1.3.13,16,17
			Raw	1.3.13	1.3.13	1.3.13
			ASM + ASMLib	1.3.12,16	1.3.12,16	1.3.12,16
			ASM + Raw	1.3.13,16	1.3.13,16	1.3.13,16
	11.2.0.2.0	Oracle Grid Infrastructure	ASM + ASMLib	1.3.12,16	1.3.12,16	1.3.12,16
			ASM + Raw	1.3.13,16	1.3.13,16	1.3.13,16
			ASM + ASMLib	1.3.12,16	1.3.12,16	1.3.12,16
			ASM + Raw	1.3.13	1.3.13	1.3.13
	11.1.0.6.0	Oracle Clusterware	ASM + ASMLib	1.3.12	1.3.12	1.3.12
			OCFS2	1.3.14	1.3.14	1.3.14
			Raw	1.3.13	1.3.13	1.3.13
			ASM + Raw	1.3.13	1.3.13	1.3.13
Red Hat Linux 5.3 (x86/ IA32) Kernels 2.6.18-128.el5 2.6.18-128.el5PAE	11.1.0.7.0	Oracle Clusterware	ASM + ASMLib	1.3.12	1.3.12	1.3.12
			OCFS2	1.3.14	1.3.14	1.3.14
			Raw	1.3.13	1.3.13	1.3.13
			ASM + Raw	1.3.13	1.3.13	1.3.13
	11.2.0.1.0	Oracle Grid Infrastructure	ASM + Raw	1.3.13,16,17	1.3.13,16,17	1.3.13,16,17
			ASM + Raw	1.3.13,16	1.3.13,16	1.3.13,16
			Raw	1.3.13	1.3.13	1.3.13
			ASM + ASMLib	1.3.12	1.3.12	1.3.12
	11.1.0.6.0	Oracle Clusterware	Raw	1.3.13	1.3.13	1.3.13
			ASM + Raw	1.3.13	1.3.13	1.3.13
			Raw	1.3.13	1.3.13	1.3.13
			ASM + ASMLib	1.3.12	1.3.12	1.3.12
Red Hat Linux 5.3 (x64 / x86_64) Kernels 2.6.18-128.el5	11.1.0.7.0 + Patch 8833297	Oracle Clusterware	Raw	1.3.13	1.3.13	1.3.13
			ASM + Raw	1.3.13	1.3.13	1.3.13
			Raw	1.3.13	1.3.13	1.3.13
			ASM + ASMLib	1.3.12	1.3.12	1.3.12
	11.2.0.1.0	Oracle Grid Infrastructure	ASM + Raw	1.3.13,16,17	1.3.13,16,17	1.3.13,16,17
			Raw	1.3.13	1.3.13	1.3.13
			ASM + ASMLib	1.3.12,16	1.3.12,16	1.3.12,16
			ASM + Raw	1.3.13,16	1.3.13,16	1.3.13,16
	11.2.0.2.0	Oracle Grid Infrastructure	Raw	1.3.13	1.3.13	1.3.13
			ASM + ASMLib	1.3.12,16	1.3.12,16	1.3.12,16
			ASM + Raw	1.3.13,16	1.3.13,16	1.3.13,16
			Raw	1.3.13	1.3.13	1.3.13
	11.2.0.3.0	Oracle Grid Infrastructure	Raw	1.3.13	1.3.13	1.3.13
			ASM + ASMLib	1.3.12,16	1.3.12,16	1.3.12,16
			ASM + Raw	1.3.13,16	1.3.13,16	1.3.13,16
			Raw	1.3.13	1.3.13	1.3.13

Red Hat Linux 5.4 (x86_ IA32) Kernels 2.6.18-164.el5 2.6.18-164.el5PAE	11.1.0.6.0	Oracle Clusterware	ASM + Raw	1,3,13	1,3,13	1,3,13
			ASM + ASMLib	1,3,12	1,3,12	1,3,12
			OCFS2	1,3,14	1,3,14	1,3,14
			ASM + Raw	1,3,13	1,3,13	1,3,13
			ASM + ASMLib	1,3,12	1,3,12	1,3,12
			OCFS2	1,3,14	1,3,14	1,3,14
Red Hat Linux 5.4 (x64 / x86_ 64) Kernels 2.6.18-164.el5	11.1.0.7.0	Oracle Clusterware	Raw	1,3,13	1,3,13	1,3,13
	11.2.0.1.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16,17	1,3,13,16,17	1,3,13,16,17
	11.2.0.2.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16	1,3,13,16	1,3,13,16
	11.1.0.6.0	Oracle Clusterware	ASM + Raw	1,3,13	1,3,13	1,3,13
			ASM + ASMLib	1,3,12	1,3,12	1,3,12
			Raw	1,3,13	1,3,13	1,3,13
	11.1.0.7.0	Oracle Clusterware	ASM + Raw	1,3,13	1,3,13	1,3,13
			ASM + ASMLib	1,3,12	1,3,12	1,3,12
			OCFS2	1,3,14	1,3,14	1,3,14
			Raw	1,3,13	1,3,13	1,3,13
	11.1.0.7.0 + Patch 8833297	Oracle Clusterware	ASM + Raw	1,3,13	1,3,13	1,3,13
			ASM + ASMLib	1,3,12	1,3,12	1,3,12
			OCFS2	1,3,14	1,3,14	1,3,14
			Raw	1,3,13	1,3,13	1,3,13
	11.2.0.1.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16,17	1,3,13,16,17	1,3,13,16,17
	11.2.0.2.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16	1,3,13,16	1,3,13,16
	11.2.0.3.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16	1,3,13,16	1,3,13,16
			ASM + ASMLib	1,3,12,16	1,3,12,16	1,3,12,16
Red Hat Linux 5.5 (x86_ IA32) Kernels 2.6.18-194.el5 2.6.18-194.el5PAE	11.1.0.6.0	Oracle Clusterware	ASM + Raw	1,3,13	1,3,13	1,3,13
			ASM + ASMLib	1,3,12	1,3,12	1,3,12
			OCFS2	1,3,14	1,3,14	1,3,14
	11.1.0.7.0	Oracle Clusterware	ASM + Raw	1,3,13	1,3,13	1,3,13
			ASM + ASMLib	1,3,12	1,3,12	1,3,12
			OCFS2	1,3,14	1,3,14	1,3,14
			Raw	1,3,13	1,3,13	1,3,13
	11.2.0.1.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16,17	1,3,13,16,17	1,3,13,16,17
	11.2.0.2.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16	1,3,13,16	1,3,13,16
	11.1.0.6.0	Oracle Clusterware	ASM + ASMLib	1,3,12	1,3,12	1,3,12
			OCFS2	1,3,13	1,3,13	1,3,13
			ASM + Raw	1,3,13	1,3,13	1,3,13
Red Hat Linux 5.5 (x64 / x86_ 64) Kernels 2.6.18-194.el5	11.1.0.7.0	Oracle Clusterware	ASM + ASMLib	1,3,12	1,3,12	1,3,12
			OCFS2	1,3,14	1,3,14	1,3,14
			Raw	1,3,13	1,3,13	1,3,13
	11.1.0.7.0 + Patch 8833297	Oracle Clusterware	ASM + Raw	1,3,13	1,3,13	1,3,13
			ASM + ASMLib	1,3,12	1,3,12	1,3,12
			OCFS2	1,3,14	1,3,14	1,3,14
			Raw	1,3,13	1,3,13	1,3,13
	11.2.0.1.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16,17	1,3,13,16,17	1,3,13,16,17
	11.2.0.2.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16	1,3,13,16	1,3,13,16
			ASM + ASMLib	1,3,12,16	1,3,12,16	1,3,12,16
	11.2.0.3.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16	1,3,13,16	1,3,13,16
			ASM + ASMLib	1,3,12,16	1,3,12,16	1,3,12,16
Red Hat Linux 5.6 (x86_ IA32) Kernels 2.6.18-274.el5 2.6.18-274.el5PAE	11.1.0.6.0	Oracle Clusterware	ASM + Raw	1,3,13,19	1,3,13,19	1,3,13,19
			ASM + ASMLib	1,3,12,19	1,3,12,19	1,3,12,19
			OCFS2	1,3,14,19	1,3,14,19	1,3,14,19
	11.1.0.7.0	Oracle Clusterware	ASM + Raw	1,3,13,19	1,3,13,19	1,3,13,19
			ASM + ASMLib	1,3,12,19	1,3,12,19	1,3,12,19
			OCFS2	1,3,14,19	1,3,14,19	1,3,14,19
			Raw	1,3,13,19	1,3,13,19	1,3,13,19
	11.2.0.1.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16,19	1,3,13,16,19	1,3,13,16,19
	11.2.0.2.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16,19	1,3,13,16,19	1,3,13,16,19
Red Hat Linux 5.7 (x64 / x86_ 64) Kernels 2.6.18-274.el5	11.1.0.6.0	Oracle Clusterware	ASM + Raw	1,3,13,19	1,3,13,19	1,3,13,19
			ASM + ASMLib	1,3,12,19	1,3,12,19	1,3,12,19
			OCFS2	1,3,13,19	1,3,13,19	1,3,13,19
	11.1.0.7.0	Oracle Clusterware	ASM + Raw	1,3,13,19	1,3,13,19	1,3,13,19
			ASM + ASMLib	1,3,12,19	1,3,12,19	1,3,12,19
			OCFS2	1,3,14,19	1,3,14,19	1,3,14,19
			Raw	1,3,13,19	1,3,13,19	1,3,13,19
	11.1.0.7.0 + Patch 8833297	Oracle Clusterware	ASM + Raw	1,3,13,19	1,3,13,19	1,3,13,19
			ASM + ASMLib	1,3,12,19	1,3,12,19	1,3,12,19
			OCFS2	1,3,14,19	1,3,14,19	1,3,14,19
			Raw	1,3,13,19	1,3,13,19	1,3,13,19
	11.2.0.1.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16,17,19	1,3,13,16,17,19	1,3,13,16,17,19
	11.2.0.2.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16,19	1,3,13,16,19	1,3,13,16,19
			ASM + ASMLib	1,3,12,16,19	1,3,12,16,19	1,3,12,16,19
	11.2.0.3.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16,19	1,3,13,16,19	1,3,13,16,19
			ASM + ASMLib	1,3,12,16,19	1,3,12,16,19	1,3,12,16,19

25. Oracle 11g RAC

Red Hat Linux 6 (x64 / x86_64) Kernels 2.6.32-71.el6.x86_64	11.2.0.3.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,19,20	1,3,13,19,20	1,3,13,19,20
	11.2.0.4.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,19, 21	1,3,13,19, 21	1,3,13,19, 21
Red Hat Linux 6.1 (x64 / x86_64) Kernels 2.6.32-2.6.32-131.0.15.el6.x86_64	11.2.0.3.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,19,20	1,3,13,19,20	1,3,13,19,20
	11.2.0.4.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,19, 21	1,3,13,19, 21	1,3,13,19, 21
Red Hat Linux 6.2 (x64 / x86_64) Kernels 2.6.32-220.el6.x86_64	11.2.0.3.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,19,20	1,3,13,19,20	1,3,13,19,20
	11.2.0.4.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,19, 21	1,3,13,19, 21	1,3,13,19, 21
Red Hat Linux 6.3 (x64 / x86_64) Kernels 2.6.32-279.el6.x86_64	11.2.0.3.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,19, 20	1,3,13,19, 20	1,3,13,19, 20
	11.2.0.4.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,19, 21	1,3,13,19, 21	1,3,13,19, 21
Red Hat Linux 6.4 (x64 / x86_64) Kernels 2.6.32-358.el6.x86_64	11.2.0.3.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,19, 20	1,3,13,19, 20	1,3,13,19, 20
	11.2.0.4.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,19, 21	1,3,13,19, 21	1,3,13,19, 21
SUSE Linux 10 (IA32 / x86) Kernels Security Fix 2.6.16.46-0.14-default 2.6.16.46-0.14-smp 2.6.16.46-0.14-bigsmpt	11.1.0.6.0	Oracle Clusterware	ASM+Raw	1, 3,13	1, 3,13	1, 3,13
SUSE Linux 10 (IA32 / x86) Kernels 2.6.16.60-0.85.1-default or 2.6.16.60-0.85.1-smp or 2.6.16.60-0.85.1-xen	11.2.0.3.0	Oracle Clusterware	ASM+Raw	1, 3,13, 16	1, 3,13, 16	1, 3,13, 16
Oracle Unbreakable Enterprise Kernel 5.6 (x64 / x86_64) Kernels 2.6.32-100.26.2.el5	11.1.0.7.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16,19	1,3,13,16,19	1,3,13,16,19
	11.2.0.3.0		ASM + Raw	1,3,13,16,19	1,3,13,16,19	1,3,13,16,19
Oracle Unbreakable Enterprise Kernel 5.7 (IA32 / x86) Kernels 2.6.32-200.13.1.el5uek	11.2.0.3.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16,19	1,3,13,16,19	1,3,13,16,19
Oracle Unbreakable Enterprise Kernel 5.7 (IA32 / x86) Kernels 2.6.32-300.27.1.el5uek	11.2.0.3.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16,19	1,3,13,16,19	1,3,13,16,19
Oracle Unbreakable Enterprise Kernel 5.7 (x64 / x86_64) Kernels 2.6.32-200.13.1.el5uek	11.2.0.3.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16,19	1,3,13,16,19	1,3,13,16,19
Oracle Unbreakable Enterprise Kernel 5.7 (x64 / x86_64) Kernels 2.6.32-300.27.1.el5uek	11.2.0.3.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16,19	1,3,13,16,19	1,3,13,16,19
Oracle Unbreakable Enterprise Kernel 6.2 (x64 / x86_64) Kernels 2.6.39-200.29.1.el6uek.x86_64	11.2.0.3.0	Oracle Grid Infrastructure	ASM + Raw		1,3,13,16,19	1,3,13,16,19
Oracle Unbreakable Enterprise Kernel 6.3 (x64 / x86_64) Kernels 2.6.39-200.24.1.el6uek.x86_64	11.2.0.3.0	Oracle Grid Infrastructure	ASM + Raw		1,3,13,16,19	1,3,13,16,19
Oracle Enterprise Linux 5.1 (IA32 / x86) Kernels 2.6.18-53.el5 2.6.18-53.el5 PAE	11.1.0.6.0	Oracle Clusterware	ASM + Raw	1,3,13	1,3,13	1,3,13
Oracle Enterprise Linux 5.1 (x64 / x86_64) Kernels 2.6.18-53.el5	11.1.0.6.0	Oracle Clusterware	ASM + Raw	1,3,13	1,3,13	1,3,13
Oracle Enterprise Linux 5.4 (IA32 / x86) Kernels 2.6.18-164.el5 2.6.18-164.el5 PAE	11.2.0.2.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16	1,3,13,16	1,3,13,16
Oracle Enterprise Linux 5.4 (x64 / x86_64) Kernels 2.6.18-164.el5	11.2.0.2.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16	1,3,13,16	1,3,13,16
Oracle Enterprise Linux 5.7 (IA32 / x86) Kernels 2.6.18-274.el5 2.6.18-274.el5 PAE	11.1.0.7.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16	1,3,13,16	1,3,13,16
			Raw	1,3,13	1,3,13	1,3,13
Oracle Enterprise Linux 5.7 (x64 / x86_64) Kernels 2.6.18-274.el5	11.1.0.7.0	Oracle Grid Infrastructure	ASM + Raw	1,3,13,16	1,3,13,16	1,3,13,16
			Raw	1,3,13	1,3,13	1,3,13

Operating System Name	Oracle Version	Cluster	Volume Manager	HDLM Version		
				6.0	6.1	6.6.0
HP-UX 11iV2 (Itanium) September 2004 May 2005 December 2005 March 2006 June 2006 September 2006 June 2007 December 2007 June 2008	11.1.0.6.0	Oracle Clusterware	ASM	1,3	1,3	1,3
		ServiceGuard 11.18 Oracle Clusterware	LVM	1,3	1,3	1,3
	11.1.0.7.0	Oracle Clusterware	ASM	1,3	1,3	1,3
		ServiceGuard 11.18 Oracle Clusterware	LVM	1,3	1,3	1,3
		ServiceGuard 11.19 Oracle Clusterware	LVM	1,3	1,3	1,3
HP-UX 11iV2 (PA-RISC) September 2004 May 2005 December 2005 March 2006 June 2006 September 2006 June 2007 December 2007 June 2008	11.1.0.6.0	Oracle Clusterware	ASM	1,3	1,3	1,3
		ServiceGuard 11.18 Oracle Clusterware	LVM	1,3	1,3	1,3

Supported	
Not Supported	

Notes	
	1 When using HDLM with Oracle 10g RAC 10.1.0.3.0 and later versions, we recommend that you set the I/O timeout period (MISSCOUNT) of the voting disk to a value higher than the number of paths to the voting disk x yy seconds (yy is 60 for RAID models, and 30 for DF models.). If the MISSCOUNT value is smaller than the recommended value and an I/O timeout occurs on the path for the voting disk, RAC will recognize the I/O timeout before HDLM can use all paths by performing a failover. For inquiries about changing the MISSCOUNT value, contact Oracle Support Services.
	3 Set the DISKTIMEOUT value as follows when using Oracle RAC 10g 10.2.0.2.0 or later versions: DISKTIMEOUT = 60 x Number of paths Do not modify the DISKTIMEOUT value if the result of the above is lower than the default value of 200.
	4 When using TechnologyLevel05, apply APAR IY82037.
	5 In this configuration, the problem below occurs in Oracle (Oracle BUG: 5131219). Therefore, customers must understand the restrictions caused by this problem in advance. When a path failure occurs in a node, and node 1 (the node that operates DB instances, whose instance number = 1) is shut down, the above node with the path failure sometimes incorrectly reboots.
	6 Regarding the I/O timeout value (MISSCOUNT), set a higher value of the following two: - 600 seconds (a default value of Oracle Clusterware in a Sun Cluster environment) - number-of-paths-to-voting-disk x yy seconds (yy is 60 for Enterprise storage systems, 30 for Modular storage systems) For questions about how to change the MISSCOUNT value, contact Oracle Support Services.
	7 RAC accesses storage by using a Oracle Solaris Cluster device ID.
	8 Support only 2 node configuration.
	9 The following conditions apply to this configuration: - RAC cannot use LUs whose EFI label setting is enabled. - RAC cannot use ZFS.
	10 Only "pathcount" is supported for a setting of SCSI protocol (fencing protocol) of storage device. For the setting of SCSI protocol (fencing protocol) of storage device, refer to the manual of Sun Cluster.
	11 ASM accesses storage by using a Oracle Solaris Cluster device ID.
	12 ASMLib (ASMLib kernel driver)
	13 Linux supports the use of /dev/Raw/Rawxx Raw devices.
	14 When you use Oracle Cluster file System 2 in an Oracle RAC environment, set the O2CB_HEARTBEAT_THRESHOLD parameter in the /etc/sysconfig/o2cbf file to the following value: (Number of paths connected to Oracle Cluster file System 2 x yy seconds / 2) + 1 (yy is 60 for RAID models, and 30 for DF models.)
	15 Create volumes by using CVM (Cluster Volume Manager).
	16 Shared file systems created by ADVM (ASM Dynamic Volume Manager) and ACFS (ASM Cluster File System) cannot be used for areas of the archive REDO log.
	17 HDLM device names can be specified directly for ASM.
	18 HDLM for Windows does not support configurations where Oracle RAC is installed on OCFS to share Oracle Home with multiple nodes.
	19 iSCSI environments are not supported.
	20 The archive REDO log can be stored in a shared file system created by ADVM (ASM Dynamic Volume Manager) and ACFS (ASM Cluster File System). However, PSU 11.2.0.3.3 or later is required.
	21 The archive REDO log can be stored in a shared file system created by ADVM (ASM Dynamic Volume Manager) and ACFS (ASM Cluster File System).

Centralized Management Console(HGLM) Supported Operating Systems

HGLM cannot be installed in the server where Command View XP AE Device Manager is installed.

OS Name	Microsoft Windows			HGLM		
	Version	Service Pack	Architecture	7.4.1	7.5.0	7.6.0
Windows Server 2003	Standard Edition Enterprise Edition Datacenter Edition	SP2	IA32 / x86			
	R2 Standard Edition R2 Enterprise Edition R2 Datacenter Edition	SP2				
Windows XP	Professional Edition	SP2	IA32 / x86			
		SP3				
Windows Vista	Business Edition Enterprise Edition Ultimate Edition	No SP	IA32 / x86			
		SP1	IA32 / x86			
		SP2	IA32 / x86			
Windows Server 2008	Standard 32-bit Edition Enterprise 32-bit Edition Datacenter 32-bit Edition Standard without Hyper-V 32-bit Edition Enterprise without Hyper-V 32-bit Edition Datacenter without Hyper-V 32-bit Edition	No SP	IA32 / x86			
	Standard Edition Enterprise Edition Datacenter Edition Standard without Hyper-V Edition Enterprise without Hyper-V Edition Datacenter without Hyper-V Edition	No SP	x64 / x86_64			
	Standard 32-bit Edition Enterprise 32-bit Edition Datacenter 32-bit Edition Standard without Hyper-V 32-bit Edition Enterprise without Hyper-V 32-bit Edition Datacenter without Hyper-V 32-bit Edition	SP2	IA32 / x86			
	Standard Edition Enterprise Edition Datacenter Edition Standard without Hyper-V Edition Enterprise without Hyper-V Edition Datacenter without Hyper-V Edition	SP2	x64 / x86_64			
	R2 Standard Edition R2 Enterprise Edition R2 Datacenter Edition	No SP	x64 / x86_64			
	R2 Standard Edition R2 Enterprise Edition R2 Datacenter Edition	SP1	x64 / x86_64			
Windows 7	Professional Edition Enterprise Edition Ultimate Edition	No SP	IA32 / x86			
			x64 / x86_64			
		SP1	IA32 / x86			
			x64 / x86_64			
Windows Server 2012	Essentials Edition Standard Edition Datacenter Edition	No SP	x64 / x86_64			
	R2 Essentials Edition R2 Standard Edition R2 Datacenter Edition	No SP	x64 / x86_64			

Supported	
Not Supported	

Centralized Management Console(HGLM) Supported Functions		HGLM		
		7.4.1	7.5.0	7.6.0
Host Management	Displaying / Modifying Host Information			
	Adding / Deleting Host			
	Host Discovery by IP Address Range			
	VMware ESXi Host Discovery			
	Scheduled Host Discovery by IP Address Range			
	Automatic / Scheduled Host Refresh			
	Discover Hosts by IPv6	4	4	4
Modify Multipathing Settings	Load Balancing for Each LU	1	1	1
	Path Health Checking			
	Auto Failback			
	Intermittent Error Monitor			
	Dynamic I/O path Control			
	Log / Trace Settings			
	Multi Host setting			
Path Management	Displaying Path Information			
	Bring Paths Online / Take Paths Offline			
	Display HBA Port WWN	4	4	4
	Displaying LDEV Label	5	5	5
Alert Management	Receive and Display Path Failure Alerts			
	Forward Path Failure Alerts to External Application			
	Alert creation for HDLM 5.7 or earlier			
	Filtering of Alert Console View			
	E-mail Alert notification			
Group Management	Lost Path Check Option			
	Host Group			
CSV Export Reporting	Resource Group			
	All Multipathing Configuration Data			
	All Multipathing Configuration Data (CLI)			
Other	Historical Path Availability Data			
	Silent Installation			
	Installation On Server Using IPv6	2, 3	2, 3	2, 3
Changing of the GUI color				

Supported	
Not Supported	

Notes	
1	HDLM 5.8 or later is required.
2	Currently not supported with MSCS. If MSCS is required, please contact appropriate person in HDS for an Interoperability Support Request (ISR) for testing.
3	Only IPv6 is not supported. The server must be configured for both IPv4 and IPv6 networks.
4	Connecting to a host using HDLM 6.1 or later is required.
5	HDvM 6.0 or later is required.

Centralized Management Console(HGLM) Supported Path Manager		HGLM		
		7.4.1	7.5.0	7.6.0
JP1/HiCommand Dynamic Link Manager	5.2 or later(*1)(*2)			
Hitachi Dynamic Link Manager Software	6.0 or later(*1)			
Veritas Volume Manager for Solaris (*3)	5.0 (*4)	5	5	5
Veritas Volume Manager for Windows (*3)	5.1 (*6)	7	7	7
HP-UX 11iv3 Native Multipathing	11iv3			

Supported Storage(HP-UX 11iv3 Native Multipathing)	HGLM		
Sutorage name	7.4.1	7.5.0	7.6.0
Hitachi Lightning 9900V			
Hitachi Universal Storage Platform			
Hitachi Universal Storage Platform V			
Hitachi Universal Storage Platform VM			
Hitachi Virtual Storage Platform			
Hitachi Network Storage Controller NSC55			
Hitachi Thunder 9530V			
Hitachi Thunder 9570V			
Hitachi Thunder 9580V			
Hitachi Adaptable Modular Storage AMS200			
Hitachi Adaptable Modular Storage AMS500			
Hitachi Adaptable Modular Storage AMS1000			
Hitachi Adaptable Modular Storage AMS2100			
Hitachi Adaptable Modular Storage AMS2300			
Hitachi Adaptable Modular Storage AMS2500			
Hitachi Workgroup Modular Storage WMS100			
SMS			
HP StorageWorks XP128 Disk Array			
HP StorageWorks XP1024 Disk Array			
HP StorageWorks XP10000 Disk Array			
HP StorageWorks XP12000 Disk Array			
HP StorageWorks XP20000 Disk Array			
HP StorageWorks XP24000 Disk Array			
HP StorageWorks P9500 Disk Array			
SVS			
Hitachi Unified Storage 110			
Hitachi Unified Storage 130			
Hitachi Unified Storage 150			
Hitachi Unified Storage VM			

Supported	
Not Supported	

Notes	
1	For details about the environment, see the "27-2. Mgmt Console (HDLM)" sheet.
2	If the HDLM version is earlier than version 5.8, then Hitachi Device Manager (HDvM) Agent version 3.5 or later must be installed on the same host as HDLM.
3	Dynamic Multipathing (DMP), which is the Veritas Volume Manager path management functionality, is supported.
4	The supported OS versions are Solaris 9 and Solaris 10.
5	DMP 5.0 with MP3 is supported.
6	The supported OS versions are Windows Server 2003 R2 SP2 and Windows Server 2008 noSP.
7	DMP 5.1 without AP, or with AP1 or SP1, is supported.

Centralized Management Console(HGLM)
Supported HDLM Versions

Microsoft Windows					HGLM		
OS Name	Version	Service Pack	Architecture	Minimum HDLM Version	7.4.1	7.5.0	7.6.0
Windows 2000	Server Advanced Server Datacenter Server	SP4	IA32 / x86	5.2	1,2	1,2	1,2
Windows Server 2003	Standard Edition	No SP	IA32 / x86	5.2			
	Web Edition	SP1		5.4			
	Enterprise Edition Datacenter Edition	SP2		5.9			
	Enterprise Edition Datacenter Edition	No SP	IA64 / Itanium	5.2			
		SP1		5.4			
		SP2		5.9			
	Standard x64 Edition Enterprise x64 Edition Datacenter x64 Edition	No SP	x64 / x86_64	5.7			
		SP2		5.9			
	R2 Standard Edition R2 Enterprise Edition R2 Datacenter Edition	No SP	IA32 / x86	5.8	1	1	1
		SP2		5.9			
Windows Server 2008	R2 Standard x64 Edition R2 Enterprise x64 Edition R2 Datacenter x64 Edition	No SP	x64 / x86_64	5.8	1	1	1
		SP2		5.9			
	Standard 32-bit Edition Enterprise 32-bit Edition Datacenter 32-bit Edition Standard without Hyper-V 32-bit Edition Enterprise without Hyper-V 32-bit Edition Datacenter without Hyper-V 32-bit Edition	No SP	IA32 / x86	5.9.5			
			IA64 / Itanium	5.9.5			
			x64 / x86_64	5.9.5			
		SP2	IA32 / x86	6.1.0			
			IA64 / Itanium	6.1.0			
			x64 / x86_64	6.1.0			
	Standard Edition Enterprise Edition Datacenter Edition	No SP	IA32 / x86	6.1.0			
		SP2		6.2.0			
	Standard Edition Enterprise Edition Datacenter Edition	No SP	x64 / x86_64	6.1.0			
		SP2		6.2.0			
	Itanium-based Systems	No SP	IA64 / Itanium	6.1.0			
		SP2		6.2.0			
	R2 Standard Edition R2 Enterprise Edition R2 Datacenter Edition R2 Standard without Hyper-V Edition R2 Enterprise without Hyper-V Edition R2 Datacenter without Hyper-V Edition	No SP	x64 / x86_64	6.2.0			
	R2 Itanium-based Systems	No SP	IA64 / Itanium	6.2.0			
		SP1	IA64 / Itanium	6.2.0			
Windows Server 2012	Essentials Edition Standard Edition Datacenter Edition	No SP	x64 / x86_64	7.4.0			
	R2 Essentials Edition R2 Standard Edition R2 Datacenter Edition	No SP	x64 / x86_64	7.6.0			

Supported	
Not Supported	

Notes

- 1 If the HDLM version is earlier than version 5.8, then Hitachi Device Manager (HDvM) Agent version 3.5 or later must be installed on the same host as HDLM.
2 HDLM 6.3.0 or earlier is supported.

Solaris SPARC					HGLM			
OS Name	Version	Architecture	Kernel Mode	Minimum HDLM Version	7.4.1	7.5.0	7.6.0	
Solaris	8	SPARC	32bit or 64bit	5.2	1	1	1	
	9		32bit or 64bit	5.2	1	1	1	
	10		64bit	5.6.1	1	1	1	
	11		64bit	7.3.0	1	1	1	
	11.1		64bit	7.3.0			1	
			64bit	7.3.0			1	

Supported	
Not Supported	

Notes

- 1 If the HDLM version is earlier than version 5.8, then Hitachi Device Manager (HDvM) Agent version 3.5 or later must be installed on the same host as HDLM.

AIX					HGLM		
OS Name	Version	Architecture	Kernel Mode	Minimum HDLM Version	7.4.1	7.5.0	7.6.0
AIX	5.2	POWER	32bit or 64bit	5.0.0			
	5.3		32bit or 64bit	5.4.1	6	6	6
	6.1		64bit	5.9.4	6.8	6.8	6.8
	7.1		64bit	6.5.0	6.8	6.8	6.8

Supported	
Not Supported	

Notes

- 6 See the sheet "17. AIX VIO" when using Virtual I/O Server.
8 HDLM does not support environments that use the Secure by Default option of AIX 6.1 or AIX 7.1.

HP-UX						HGLM		
OS Name	Version	Release	Architecture	Kernel Mode	Minimum HDLM Version	7.2.0	7.3.0	7.3.1
HP-UX	11iV1	N/A	PA-RISC	64bit	5.2	1	1	1
	11iV2	September 2004 May 2005 December 2005 March 2006 June 2006 September 2006 June 2007 December 2007 June 2008	Itanium	-	5.6	1	1	1
		September 2004 May 2005 December 2005 March 2006 June 2006 September 2006 June 2007 December 2007 June 2008	PA-RISC	64bit	5.6.1	1	1	1
	11iV3	There are no plans to support HDLM Advanced with HP-UX 11iV3 or later because HP-UX 11iV3 has implemented its own native multipathing solution. Additionally, HP does not recommend nor support 3rd party vendor multipathing on HP-UX 11iV3 or later. All issues relating to multipathing and HP-UX 11iV3 must be discussed directly with HP.						

Supported	
Not Supported	

Notes	
1	If the HDLM version is earlier than version 5.8, then Hitachi Device Manager (HdM) Agent version 3.5 or later must be installed on the same host as HDLM.

Red Hat Linux						HGLM		
OS Name	Version	Update	Kernel	Architecture	Minimum HDLM Version	7.4.1	7.5.0	7.6.0
Red Hat Linux ELAS or ELES	3	3	2.4.21-20.EL	Intel x86	5.4.2	1	1	1
			2.4.21-20.ELsmp					
			2.4.21-20.ELhugemem	IA64 / Itanium	5.4.2	1	1	1
			2.4.21-20.EL					
		5 + Security Fix	2.4.21-32.0.1.EL	Intel x86	5.6.4	1	1	1
			2.4.21-32.0.1.ELsmp					
			2.4.21-32.0.1.ELhugemem	IA64 / Itanium	5.6.4	1	1	1
			2.4.21-32.0.1.EL					
			2.4.21-32.0.1.EL	EM64T	5.6.4	1	1	1
			2.4.21-32.0.1.EL					
			2.4.21-32.0.1.ELsmp	AMD64	5.6.4	1	1	1
			2.4.21-32.0.1.EL					
		8	2.4.21-47.EL	Intel x86	5.8.1			
			2.4.21-47.ELsmp					
			2.4.21-47.ELhugemem	IA64 / Itanium	5.8.1			
			2.4.21-47.EL					
	3.9	N/A	2.4.21-50.EL	Intel x86	5.9.4			
			2.4.21-50.ELsmp					
			2.4.21-50.ELhugemem	IA64 / Itanium	5.9.4			
			2.4.21-50.EL					
Red Hat Linux ELAS or ELES	4	1	2.6.9-11.EL	Intel x86	5.7	1	1	1
			2.6.9-11.ELsmp					
			2.6.9-11.ELhugemem	IA64 / Itanium	5.7	1	1	1
			2.6.9-11.EL					
		3	2.6.9-11.ELsmp	AMD64	5.7	1, 11	1, 11	1, 11
			2.6.9-34.EL					
			2.6.9-34.ELsmp	Intel x86	5.8.1			
			2.6.9-34.ELhugemem					
			2.6.9-34.EL	IA64 / Itanium	5.8.1			
			2.6.9-34.EL					
			2.6.9-34.ELsmp	EM64T AMD64	5.8.1	11	11	11
			2.6.9-34.ELlargesmp					
		3 + Security Fix	2.6.9-34.0.2.EL	Intel x86	6.1.1			
			2.6.9-34.0.2.ELsmp					
			2.6.9-34.0.2.ELhugemem	EM64T AMD64	6.1.1	11	11	11
			2.6.9-34.0.2.EL					
		4	2.6.9-42.EL	Intel x86	5.8.1			
			2.6.9-42.ELsmp					
			2.6.9-42.ELhugemem	AMD x86	5.9			
			2.6.9-42.EL					
			2.6.9-42.EL	IA64 / Itanium	5.8.1			
			2.6.9-42.EL					
			2.6.9-42.ELsmp	EM64T AMD64	5.8.1	11	11	11
			2.6.9-42.ELlargesmp					
		4 + Security Fix	2.6.9-42.0.3.EL	Intel x86	5.9.1			
			2.6.9-42.0.3.ELsmp					
			2.6.9-42.0.3.ELhugemem	IA64 / Itanium	5.9.1			
			2.6.9-42.0.3.EL					
			2.6.9-42.0.3.ELsmp	EM64T AMD64	5.9.1	11	11	11
			2.6.9-42.0.3.ELlargesmp					
			2.6.9-42.0.3.EL					
			2.6.9-42.0.3.ELsmp					

Red Hat Linux ELAS or ELES	4.5	None	2.6.9-55.EL	Intel x86	5.9.3					
			2.6.9-55.ELsmp							
			2.6.9-55.ELhugemem							
			2.6.9-55.EL							
			2.6.9-55.ELlargesmp			IA64 / Itanium	5.9.3			
			2.6.9-55.EL							
			2.6.9-55.ELsmp	EM64T AMD64	5.9.3	11	11	11		
			2.6.9-55.ELlargesmp							
Red Hat Linux ELAS or ELES	4.6	None	2.6.9-67.EL	Intel x86	5.9.4					
			2.6.9-67.ELsmp							
			2.6.9-67.ELhugemem							
			2.6.9-67.EL			IA64 / Itanium	5.9.4			
			2.6.9-67.ELlargesmp							
				2.6.9-67.EL	EM64T AMD64	5.9.4	11	11	11	
				2.6.9-67.ELsmp						
				2.6.9-67.ELlargesmp						
	4.7	None	2.6.9-78.EL	Intel x86	6.0.0					
			2.6.9-78.ELsmp							
			2.6.9-78.ELhugemem							
			2.6.9-78.EL			IA64 / Itanium	6.0.0			
			2.6.9-78.ELlargesmp							
				2.6.9-78.EL	EM64T AMD64	6.0.0	11	11	11	
				2.6.9-78.ELsmp						
				2.6.9-78.ELlargesmp						
	4.8	None	2.6.9-89.EL	Intel x86	6.0.0					
			2.6.9-89.ELsmp							
			2.6.9-89.ELhugemem							
			2.6.9-89.EL			IA64 / Itanium	6.0.0			
			2.6.9-89.ELlargesmp							
				2.6.9-89.EL	EM64T AMD64	6.0.0	11	11	11	
				2.6.9-89.ELsmp						
				2.6.9-89.ELlargesmp						
	4.9	None	2.6.9-100.EL	Intel x86	6.0.0					
			2.6.9-100.ELsmp							
			2.6.9-100.ELhugemem							
			2.6.9-100.EL			IA64 / Itanium	6.0.0			
			2.6.9-100.ELlargesmp							
				2.6.9-100.EL	EM64T AMD64	6.0.0	11	11	11	
				2.6.9-100.ELsmp						
				2.6.9-100.ELlargesmp						
5	None	2.6.18-8.el5	Intel x86	5.9.3						
		2.6.18-8.el5PAE								
		2.6.18-8.el5			IA64 / Itanium	5.9.3				
		2.6.18-8.el5			EM64T AMD64	5.9.3	11	11	11	
Red Hat Linux ELAP or EL	5.1	None	2.6.18-53.el5	Intel x86	5.9.4					
			2.6.18-53.el5PAE							
			2.6.18-53.el5			IA64 / Itanium	5.9.4			
			2.6.18-53.el5			EM64T AMD64	5.9.4	11	11	11
	5.2	None	2.6.18-92.el5	Intel x86	5.9.4					
			2.6.18-92.el5PAE							
			2.6.18-92.el5			IA64 / Itanium	5.9.4			
			2.6.18-92.el5			EM64T AMD64	5.9.4	11	11	11
	5.3	None	2.6.18-128.el5	Intel x86	6.1.2					
			2.6.18-128.el5PAE							
			2.6.18-128.el5			IA64 / Itanium	6.1.2			
			2.6.18-128.el5			EM64T AMD64	6.1.2	11	11	11
	5.4	None	2.6.18-164.el5	Intel x86	6.1.2					
			2.6.18-164.el5PAE							
			2.6.18-164.el5			IA64 / Itanium	6.1.2			
			2.6.18-164.el5			EM64T AMD64	6.1.2	11	11	11
	5.5	None	2.6.18-194.el5	Intel x86	6.1.2					
			2.6.18-194.el5PAE							
			2.6.18-194.el5			IA64 / Itanium	6.1.2			
			2.6.18-194.el5			EM64T AMD64	6.1.2	11	11	11
	5.6	None	2.6.18-238.el5	Intel x86	6.1.2					
			2.6.18-238.el5PAE							
			2.6.18-238.el5			IA64 / Itanium	6.1.2			
			2.6.18-238.el5			EM64T AMD64	6.1.2	11	11	11
	5.7	None	2.6.18-274.el5	Intel x86	6.1.2					
			2.6.18-274.el5PAE							
			2.6.18-274.el5			IA64 / Itanium	6.1.2			
			2.6.18-274.el5			EM64T AMD64	6.1.2	11	11	11
	5.8	None	2.6.18-308.el5	Intel x86	6.1.2					
			2.6.18-308.el5PAE							
			2.6.18-308.el5			IA64 / Itanium	6.1.2			
			2.6.18-308.el5			EM64T AMD64	6.1.2	11	11	11
5.9	None	2.6.18-348.el5	Intel x86	6.1.2						
		2.6.18-348.el5PAE								
		2.6.18-348.el5			IA64 / Itanium	6.1.2				
		2.6.18-348.el5			EM64T AMD64	6.1.2	11	11	11	
5.10	None	2.6.18-371.el5	Intel x86	6.1.2						
		2.6.18-371.el5PAE								
		2.6.18-371.el5			IA64 / Itanium	6.1.2				
		2.6.18-371.el5			EM64T AMD64	6.1.2	11	11	11	
Red Hat Linux ELAP or EL	6	None	2.6.32-71.el6.i686	Intel x86	6.5.2					
			2.6.32-71.el6.x86_64			EM64T AMD64	6.5.2	12	12	12
	6.1	None	2.6.32-131.0.15.el6.i686	Intel x86	6.6.2-01					
			2.6.32-131.0.15.el6.x86_64			EM64T AMD64	6.6.2-01	12	12	12
	6.2	None	2.6.32-220.el6.i686	Intel x86	7.2.0-00					
			2.6.32-220.el6.x86_64			EM64T AMD64	7.2.0-00	12	12	12
	6.3	None	2.6.32-279.el6.i686	Intel x86	7.4.0-00					
			2.6.32-279.el6.x86_64			EM64T AMD64	7.4.0-00	12	12	12
	6.4	None	2.6.32-358.el6.i686	Intel x86	7.4.0-00					
			2.6.32-358.el6.x86_64			EM64T AMD64	7.4.0-00	12	12	12

Oracle Unbreakable Enterprise Kernel	5.6	None	2.6.32-100.26.2.el5	EM64T AMD64	7.2.1-00	11	11	11
			2.6.32-200.13.1.el5uek	Intel x86	7.3.0-00	11	11	11
			2.6.32-300.27.1.el5uek	Intel x86	7.4.0-00	11	11	11
	5.7	None	2.6.32-200.13.1.el5uek	EM64T AMD64	7.3.0-00	11	11	11
			2.6.32-300.27.1.el5uek	AMD64	7.4.0-00	11	11	11
			2.6.39-200.29.1.el6uek.i686	Intel x86	7.4.1-00	11	11	11
	6.2	None	2.6.39-200.29.2.el6uek.i686	Intel x86	7.4.1-00	11	11	11
			2.6.39-200.29.1.el6uek.x86_64	EM64T AMD64	7.4.1-00	11	11	11
			2.6.39-200.29.2.el6uek.x86_64	EM64T AMD64	7.4.1-00	11	11	11
			2.6.39-200.24.1.el6uek.i686	Intel x86	7.4.1-00	11	11	11
	6.3	None	2.6.39-200.24.1.el6uek.x86_64	EM64T AMD64	7.4.1-00	11	11	11

Supported	
Not Supported	

Notes	
1	If the HDLM version is earlier than version 5.8, then Hitachi Device Manager (HDvM) Agent version 3.5 or later must be installed on the same host as HDLM.
11	In an EM64T/AMD64 environment, the RPM (Red Hat Package Manager) packages listed below are required. Install these RPM packages before installing HDLM: - libstdc++-RPM package version.i686.rpm - libgcc-RPM package version.i686.rpm - glibc-RPM package version.i686.rpm RPM-package-version depends on the OS version you are using.
12	In an EM64T/AMD64 environment, the RPM (Red Hat Package Manager) packages listed below are required. Install these RPM packages before installing HDLM: - libstdc++-RPM package version.i686.rpm - libgcc-RPM package version.i686.rpm - glibc-RPM package version.i686.rpm RPM-package-version depends on the OS version you are using.

SuSE Linux						HGLM		
OS Name	Version	Update	Kernel	Architecture	Minimum HDLM Version	7.4.1	7.5.0	7.6.0
SUSELES	9	3	2.6.5-7.244-default	Intel x86	5.8	1	1	1
			2.6.5-7.244-smp					
			2.6.5-7.244-bigsmp					
		3 + Security Fix	2.6.5-7.244-default	EM64T AMD64	5.8	1	1	1
			2.6.5-7.244-smp					
			2.6.5-7.252-smp					
		4	2.6.5-7.283-smp	EM64T AMD64	5.9.4			
			2.6.5-7.308-default					
			2.6.5-7.308-smp					
			2.6.5-7.308-bigsmp	Intel x86	6.0.0			
			2.6.5-7.308-default					
			2.6.5-7.308-smp					
		4 + Security Fix	2.6.5-7.315-default	Intel x86	6.2.1			
			2.6.5-7.315-smp					
			2.6.5-7.315-bigsmp	EM64T AMD64	6.2.1			
	10	None	2.6.16-21-0.8-default	Intel x86	5.9			
			2.6.16-21-0.8-smp					
			2.6.16-21-0.8-bigsmp					
			2.6.16-21-0.8-default	IA64 / Itanium	5.9.3			
			2.6.16-21-0.8-smp					
			2.6.16-21-0.8-bigsmp					
		SP1 + Security Fix	2.6.16-46-0.14-default	Intel x86	5.9.3			
			2.6.16-46-0.14-smp					
			2.6.16-46-0.14-bigsmp					
			2.6.16-46-0.14-default	IA64 / Itanium	5.9.3			
			2.6.16-46-0.14-smp					
			2.6.16-46-0.14-bigsmp					
		SP2	2.6.16-60-0.21-default	Intel x86	6.0.1			
			2.6.16-60-0.21-smp					
			2.6.16-60-0.21-bigsmp					
			2.6.16-60-0.21-xenpae	Intel x86	6.2.0			
			2.6.16-60-0.21-default					
			2.6.16-60-0.21-smp					
		SP3	2.6.16-60-0.21-default	IA64 / Itanium	6.0.1			
			2.6.16-60-0.21-smp					
			2.6.16-60-0.21-bigsmp					
			2.6.16-60-0.54.5-default	Intel x86	6.3.0			
			2.6.16-60-0.54.5-smp					
			2.6.16-60-0.54.5-bigsmp					
	11	SP4	2.6.16-60-0.54.5-xenpae	IA64 / Itanium	6.3.0			
			2.6.16-60-0.54.5-default					
			2.6.16-60-0.54.5-smp					
			2.6.16-60-0.54.5-xenpae	Intel x86	6.3.0			
			2.6.16-60-0.54.5-default					
			2.6.16-60-0.54.5-smp					
		Security Fix	2.6.16-60-0.85.1-default	Intel x86	6.6.2			
			2.6.16-60-0.85.1-smp					
			2.6.16-60-0.85.1-bigsmp					
			2.6.16-60-0.85.1-xenpae	IA64 / Itanium	6.6.2			
			2.6.16-60-0.85.1-default					
			2.6.16-60-0.85.1-smp					
		SP1	2.6.27-21-0.1.2-default	Intel x86	6.2.1			
			2.6.27-21-0.1.2-pae					
			2.6.27-21-0.1.2-xen					
			2.6.27-21-0.1.2-default	IA64 / Itanium	6.2.1			
			2.6.27-21-0.1.2-smp					
			2.6.27-21-0.1.2-xen					
		SP2	2.6.32-12-0.7.1-default	Intel x86	6.5.0			
			2.6.32-12-0.7.1-pae					
			2.6.32-12-0.7.1-xen					
			2.6.32-12-0.7.1-default	IA64 / Itanium	6.5.0			
			2.6.32-12-0.7.1-smp					
			2.6.32-12-0.7.1-xen					
		SP2	3.0.13-0.27-default	Intel x86	7.4.0			
			3.0.13-0.27-pae					
			3.0.13-0.27-default					
			3.0.13-0.27-default	IA64 / Itanium	7.4.0			
			3.0.13-0.27-pae					
			3.0.13-0.27-default					

Supported	
Not Supported	

1 If the HDLM version is earlier than version 5.8, then Hitachi Device Manager (HDvM) Agent version 3.5 or later must be installed on the same host as HDLM.

VMware					HGLM		
OS Name	Version/Edition	Architecture	Kernel Mode	Minimum HDLM Version	7.4.1	7.5.0	7.6.0
VMware ESXi	5.0 Enterprise	EM64T or AMD64	64bit	7.3.0			
	5.0 Enterprise plus	EM64T or AMD64	64bit	7.3.0			
	5.1 Enterprise	EM64T or AMD64	64bit	7.4.0			
	5.1 Enterprise plus	EM64T or AMD64	64bit	7.4.0			
	5.5 Enterprise	EM64T or AMD64	64bit	7.6.0			
	5.5 Enterprise plus	EM64T or AMD64	64bit	7.6.0			
					Supported		
					Not Supported		

Centralized Management Console(HGLM)
Supported Cluster Software

The following table describes the cluster function supported by Centralized Management Console(HGLM)
For the cluster configuration, Centralized Management Console(HGLM) supports the "Active - Standby" configuration only.

Microsoft Windows				Cluster		HGLM		
OS Name	Version	Service Pack	Architecture	Name	Version	7.4.1	7.5.0	7.6.0
Windows Server 2003	Enterprise Edition Datacenter Edition	SP2	IA32 / x86	MSCS	Bundle			
	R2 Enterprise Edition R2 Datacenter Edition	SP2		MSCS	Bundle			
Windows Server 2008	Enterprise Edition Datacenter Edition	SP2	IA32 / x86	MSFC	Bundle			
	Enterprise Edition Datacenter Edition	SP2	x64 / x86_64	MSFC	Bundle			
	R2 Enterprise Edition R2 Datacenter Edition	No SP	x64 / x86_64	MSFC	Bundle			
Windows Server 2012	Essentials Edition Standard Edition Datacenter Edition	No SP	x64 / x86_64	MSFC	Bundle			
	R2 Essentials Edition R2 Standard Edition R2 Datacenter Edition	No SP	x64 / x86_64	MSFC	Bundle			
						Supported		
						Not Supported		

**Centralized Management Console(HGLM)
Supported Browser**

Operating System				Browser		HGLM			
						7.4.1	7.5.0	7.6.0	
Windows XP	Professional Edition	SP2 SP3	IA32 / x86	Internet Explorer	6.X 7.X 8.X				
Windows Server 2003	Standard Edition	SP2	IA32 / x86	Internet Explorer	6.X 7.X 8.X				
	Enterprise Edition Datacenter Edition								
	R2 Standard Edition R2 Enterprise Edition R2 Datacenter Edition	SP2	IA32 / x86	Internet Explorer	6.X 7.X 8.X				
Windows Vista	Business Edition Enterprise Edition Ultimate Edition	noSP	IA32 / x86	Internet Explorer	7.X 8.X				
		SP1	IA32 / x86		7.X 8.X				
		SP2	IA32 / x86		7.X 8.X				
Windows Server 2008	Standard 32-bit Edition Enterprise 32-bit Edition Datacenter 32-bit Edition Standard without Hyper-V 32-bit Edition Enterprise without Hyper-V 32-bit Edition Datacenter without Hyper-V 32-bit Edition	noSP	IA32 / x86	Internet Explorer	7.X 8.X				
		SP2			7.X 8.X 9.X				
	Standard Edition Enterprise Edition Datacenter Edition Standard without Hyper-V Edition Enterprise without Hyper-V Edition Datacenter without Hyper-V Edition	noSP	X64 / x86_64	Internet Explorer	7.X 8.X				
		SP2			7.X 8.X 9.X				
	R2 Standard Edition R2 Enterprise Edition R2 Datacenter Edition R2 Standard without Hyper-V Edition R2 Enterprise without Hyper-V Edition R2 Datacenter without Hyper-V Edition	noSP	X64 / x86_64	Internet Explorer	8.X 9.X				
	R2 Standard Edition R2 Enterprise Edition R2 Datacenter Edition R2 Standard without Hyper-V Edition R2 Enterprise without Hyper-V Edition R2 Datacenter without Hyper-V Edition	SP1	X64 / x86_64	Internet Explorer	8.X 9.X				
					10.x				
	Windows Server 2012	Essentials Edition Standard Edition Datacenter Edition	noSP	X64 / x86_64	Internet Explorer	10.X			
		R2 Essentials Edition R2 Standard Edition R2 Datacenter Edition	noSP	X64 / x86_64	Internet Explorer	10.X			
Windows 7	Professional Edition Enterprise Edition Ultimate Edition	noSP	IA32 / x86	Internet Explorer	8.X 9.X				
			X64 / x86_64		10.x				
		SP1	IA32 / x86	Internet Explorer	8.X 9.X				
			X64 / x86_64		10.x				
Windows 8	Windows 8 Edition Pro Edition Enterprise Edition	noSP	IA32 / x86	Internet Explorer	10.X				
			X64 / x86_64	Internet Explorer	10.X				

Operating System				Browser		HGLM		
						7.4.1	7.5.0	7.6.0
Solaris 9	SPARC	32bit	FireFox	3.6.x				
		64bit	FireFox	3.6.x ESR 10.0.x				
Solaris 10	SPARC	32bit	FireFox	3.6.x				
		64bit	FireFox	3.6.x ESR 10.0.x				
				ESR 17.0.x				

Operating System		Browser		HGLM		
				7.4.1	7.5.0	7.6.0
Red Hat AS/ES 4.6 2.6.9-67.EL 2.6.9-67.ELsmp 2.6.9.67.ELhugemem	IA32 / x86	FireFox	1.5.x			
Red Hat AS/ES 5.2 2.6.18-92.el5 2.6.18-92.el5PAE	IA32 / x86	FireFox	3.0.x			
			3.6.x			
			ESR 10.0.x			
			ESR 17.0.x			
Red Hat AS/ES 5.6 2.6.18-238.el5 2.6.18-238.el5PAE	IA32 / x86	FireFox	3.6.x			
			ESR 10.0.x			
			ESR 17.0.x			
Red Hat AS/ES 5.8 2.6.18-308.el5 2.6.18-308.el5PAE	IA32 / x86	FireFox	3.6.x			
			ESR 10.0.x			
			ESR 17.0.x			
Red Hat ELAP/EL 6.2 2.6.32-220.el6.i686	IA32 / x86	FireFox	3.6.x			
			ESR 10.0.x			
			ESR 17.0.x			

Supported	
Not Supported	

**Centralized Management Console(HGLM)
Supported IPv6 Network**

Attention:**1: Use Centralized Management Console(HGLM) on OS configured for IPv4/IPv6 Dual Stack Network.**

Centralized Management Console(HGLM) does not support IPv6-only environments. Set up the OS such that both IPv4 and IPv6 can be used.

Only a IPv6 global address is supported by Centralized Management Console(HGLM).

You can only use global addresses as an IPv6 addresses. Global-unique local addresses (site-local addresses), and link addresses cannot be used.

(1) Centralized Management Console(HGLM)

OS	OS Name	OS Service Pack	architecture	HGLM		
				7.4.1	7.5.0	7.6.0
Windows	Windows Server 2003	SP2	IA32 / x86			
	Windows Server 2003 R2	SP2	IA32 / x86			
	Windows Vista	noSP	IA32 / x86			
		SP1	IA32 / x86			
	Windows Server 2008	SP2	IA32 / x86			
		noSP	IA32 / x86			
			X64 / x86_64			
		SP2	IA32 / x86			
	Windows Server 2008 R2		X64 / x86_64			
		noSP	X64 / x86_64			
	Windows 7	SP1	X64 / x86_64			
		noSP	IA32 / x86			
			X64 / x86_64			
	Windows Server 2012	noSP	X64 / x86_64			
	Windows Server 2012 R2	noSP	X64 / x86_64			

(2) Web Client

OS	OS Name	OS Service Pack	architecture	Name	Version	HGLM		
						7.4.1	7.5.0	7.6.0
Windows	Windows Server 2003	SP2	IA32 / x86	Internet Explorer	6.0 or later(*4)			
	Windows Server 2003 R2	SP2	IA32 / x86	Internet Explorer	6.0 or later(*4)			
	Windows Vista	noSP	IA32 / x86	Internet Explorer	7.0 or later			
		SP1	IA32 / x86	Internet Explorer	7.0 or later			
	Windows Server 2008	SP2	IA32 / x86	Internet Explorer	7.0 or later			
			IA32 / x86	Internet Explorer	7.0 or later			
			X64 / x86_64	Internet Explorer	7.0 or later			
		SP2	IA32 / x86	Internet Explorer	7.0 or later			
	Windows Server 2008 R2		X64 / x86_64	Internet Explorer	7.0 or later			
		noSP	X64 / x86_64	Internet Explorer	8.0 or later			
	Windows Server 2012	SP1	X64 / x86_64	Internet Explorer	8.0 or later			
		noSP	X64 / x86_64	Internet Explorer	10.0 or later			
	Windows Server 2012 R2	noSP	X64 / x86_64	Internet Explorer	10.0 or later			
	Windows 7	noSP	IA32 / x86	Internet Explorer	8.0 or later			
			X64 / x86_64	Internet Explorer	8.0 or later			
		SP1	IA32 / x86	Internet Explorer	8.0 or later			
	Windows 8		X64 / x86_64	Internet Explorer	8.0 or later			
		noSP	IA32 / x86	Internet Explorer	10.0 or later			
			X64 / x86_64	Internet Explorer	10.0 or later			

(3) Path Manager

Product Name	Version	HGLM		
		7.4.1	7.5.0	7.6.0
Hitachi Dynamic Link Manager Software	6.0 or later(*5)(*6)			
Veritas Volume Manager	5.0			
Veritas Volume Manager	5.1			
HP-UX 11v3 Native Multipathing	11v3			

Supported	
Not Supported	

Notes

4	If you specify an IPv6 address in Internet Explorer 6, you cannot connect to the HGLM server. To connect to an HGLM server in this environment, use a host name.
5	For details about the environment, see "27-2. Mgmt Console (HGLM)".
6	HP-UX is not supported.

**Centralized Management Console(HGLM)
Supported Virtualization**

OS	OS Name	OS Version OS Edition	OS Service Pack	architecture	Virtualization	Version	HGLM		
							7.4.1	7.5.0	7.6.0
Windows	Windows Server 2003	Enterprise Edition Datacenter Edition	noSP	IA32 / x86	VMware ESX/ESXi	3.x			
			SP1	IA32 / x86	VMware ESX/ESXi	3.x			
			SP2	IA32 / x86	VMware ESX/ESXi	3.x			
						4.x			
		R2 Enterprise Edition R2 Datacenter Edition	noSP	IA32 / x86	VMware ESX/ESXi	3.x			
			SP2	IA32 / x86	VMware ESX/ESXi	3.x			
						4.x			
						5.x			
	Windows XP	Professional Edition	SP2	IA32 / x86	VMware ESX/ESXi	3.x			
						4.x			
						5.x			
			SP3	IA32 / x86	VMware ESX/ESXi	3.x			
						4.x			
						5.x			
		Business Edition Enterprise Edition Ultimate Edition	noSP	IA32 / x86	VMware ESX/ESXi	3.x			
						4.x			
						5.x			
			SP1	IA32 / x86	VMware ESX/ESXi	3.x			
						4.x			
						5.x			
	Windows Vista	Business Edition Enterprise Edition Ultimate Edition	noSP	IA32 / x86	VMware ESX/ESXi	3.x			
						4.x			
						5.x			
			SP1	IA32 / x86	VMware ESX/ESXi	3.x			
						4.x			
						5.x			
		Business Edition Enterprise Edition Ultimate Edition	SP2	IA32 / x86	VMware ESX/ESXi	3.x			
						4.x			
						5.x			
			noSP	IA32 / x86	VMware ESX/ESXi	3.x			
						4.x			
						5.x			
	Windows 7	Professional or Enterprise or Ultimate	noSP	IA32 / x86	VMware ESX/ESXi	3.x			
						4.x			
						5.x			
		Professional or Enterprise or Ultimate	noSP	X64 / x86_64	VMware ESX/ESXi	3.x			
						4.x			
						5.x			
		Professional or Enterprise or Ultimate	SP1	IA32 / x86	VMware ESX/ESXi	3.x			
						4.x			
						5.x			
		Professional or Enterprise or Ultimate	SP1	X64 / x86_64	VMware ESX/ESXi	3.x			
						4.x			
						5.x			
	Windows Server 2008	Standard 32-bit Edition Enterprise 32-bit Edition Datacenter 32-bit Edition Standard without Hyper-V 32-bit Edition Enterprise without Hyper-V 32-bit Edition Datacenter without Hyper-V 32-bit Edition	noSP	IA32 / x86	VMware ESX/ESXi	3.x			
						4.x			
						5.x			
		Standard Edition Enterprise Edition Datacenter Edition Standard without Hyper-V Edition Enterprise without Hyper-V Edition Datacenter without Hyper-V Edition	noSP	X64 / x86_64	VMware ESX/ESXi	3.x			
						4.x			
						5.x			
					Hyper-V	1.x			
		Standard 32-bit Edition Enterprise 32-bit Edition Datacenter 32-bit Edition Standard without Hyper-V 32-bit Edition Enterprise without Hyper-V 32-bit Edition Datacenter without Hyper-V 32-bit Edition	SP2	IA32 / x86	VMware ESX/ESXi	3.x			
						4.x			
						5.x			
		Standard Edition Enterprise Edition Datacenter Edition Standard without Hyper-V Edition Enterprise without Hyper-V Edition Datacenter without Hyper-V Edition	SP2	X64 / x86_64	VMware ESX/ESXi	3.x			
						4.x			
						5.x			
					Hyper-V	1.x			

		R2 Standard Edition R2 Enterprise Edition R2 Datacenter Edition R2 Standard without Hyper-V Edition R2 Enterprise without Hyper-V Edition R2 Datacenter without Hyper-V Edition	noSP	x64 / x86_64	VMware ESX/ESXi	3.x			
		4.x							
		5.x							
		Hyper-V	2.x						
		R2 Standard Edition R2 Enterprise Edition R2 Datacenter Edition R2 Standard without Hyper-V Edition R2 Enterprise without Hyper-V Edition R2 Datacenter without Hyper-V Edition	SP1	x64 / x86_64	VMware ESX/ESXi	3.x			
		4.x							
		5.x							
		Hyper-V	2.x						
	Windows Server 2012	Essentials Edition Standard Edition Datacenter Edition	noSP	x64 / x86_64	Hyper-V	3.x			
	Windows Server 2012	R2 Essentials Edition R2 Standard Edition R2 Datacenter Edition	noSP	x64 / x86_64	Hyper-V	3.x			

Supported		
Not Supported		

Notes
