

**HDS Modular Arrays SAN Boot Support Matrix**

The following compatibility/interoperability information provided by Hitachi Data Systems should be used as a reference guide only, because hardware and software levels and releases may vary, and numerous hardware and software combinations are possible. Hitachi Data Systems makes Submit ISR representation or guarantee regarding the compatibility of specific hardware or software products.

**This information is provided "AS IS" without warranty of any kind, including any warranty of merchandising or fitness for a particular purpose.**

Cells highlighted in light blue are new entries.

Support of OS, OS/HBA, or specific HBA Code with "Submit ISR" indicated or that is not in this matrix requires a interoperability support request (ISR).

1004671

**IBM AIX HBA Support**

IBM AIX 5.3 FW / FCODE	HUS100		AMS2000/SMS		AMS1000/WMS	
	Direct	Switch	Direct	Switch	Direct	Switch
IBM 5716	Submit ISR	Submit ISR	1.91a5 191105	1.90a4 1.91a5 191105	1.91a5 191105	1.91a5 1.92a1 191105
IBM 5758	Submit ISR	Submit ISR	2.10x8 2.71x4 2.71x10	2.10x8 2.71x4 2.71x10	Submit ISR	2.10x8 2.71x4 2.71x10
IBM 5759	Submit ISR	Submit ISR	2.10x8 2.71x4 2.71x10	2.10x8 2.71x4 2.71x10	Submit ISR	2.10x8 2.71x4 2.71x10
IBM 5773	Submit ISR	Submit ISR	2.71a2	2.71a2	Submit ISR	Submit ISR
IBM 6228	Submit ISR	Submit ISR	3.93a0	3.93a0	Submit ISR	Submit ISR
IBM 6239	Submit ISR	Submit ISR	1.92a1 1.92a2	1.91a5 1.92a2	1.81x1 1.92a1	1.81x1 1.92a1

IBM AIX 6.1 FW / FCODE	HUS100		AMS2000/SMS		AMS1000/WMS	
	Direct	Switch	Direct	Switch	Direct	Switch
IBM 5716	Submit ISR	Submit ISR	1.91a5 191105	1.90a4 1.91a5 191105	1.91a5 191105	1.90a4 1.91a5 191105
IBM 5735	Not supported	1.11x4	Not supported	1.11x4	Not supported	Submit ISR
IBM 5758	2.71x4 2.71x10	2.71x4 2.71x10	2.10x8 2.71x4 2.71x10	2.10x8 2.71x4 2.71x10	Submit ISR	2.10x8 2.71x4 2.71x10
IBM 5759	2.71x4 2.71x10	2.71x4 2.71x10	2.10x8 2.71x4 2.71x10	2.10x8 2.71x4 2.71x10	Submit ISR	2.10x8 2.71x4 2.71x10
IBM 5773	2.71x15	2.71x15	2.71a2	2.71a2	Submit ISR	Submit ISR
IBM 5774	2.71x15	2.71x15	2.71a2	2.71a2	Submit ISR	Submit ISR

**HDS Modular Arrays SAN Boot Support Matrix**

IBM 6228	Submit ISR	Submit ISR	3.93a0	3.93a0	Submit ISR	Submit ISR
IBM 6239	Submit ISR	Submit ISR	1.92a1 1.92a2 192101	1.92a1 192101 1.92a2	1.81x1 1.92a1	1.81x1 1.92a1 1.92a1

IBM AIX 7.1	HUS100		AMS2000/SMS		AMS1000/WMS	
FW / FCODE	Direct	Switch	Direct	Switch	Direct	Switch
IBM 5716	Submit ISR	Submit ISR	1.91a5	1.91a5	Submit ISR	1.91a5
IBM 5735	Not supported	Submit ISR	Not supported	1.11x4	Not supported	Submit ISR
IBM 5774	Submit ISR	Submit ISR	Submit ISR	2.71x4	Submit ISR	Submit ISR
IBM 6239	Submit ISR	Submit ISR	1.92a1	1.92a1	1.92a1	1.92a1

**HP HP-UX (IA64) HBA Support**

HP HP-UX 11.23 (IA64)	HUS100		AMS2000/SMS		AMS1000/WMS	
EFI	Direct	Switch	Direct	Switch	Direct	Switch
HP A6795A	Submit ISR	Submit ISR	1.37	1.37	Submit ISR	1.24
HP A6826A	Submit ISR	Submit ISR	1.49	1.49	Submit ISR	Submit ISR
HP A9782A	Submit ISR	Submit ISR	1.49	1.49	Submit ISR	1.49
HP A9784A	Submit ISR	Submit ISR	1.49	1.49	Submit ISR	1.49
HP AB378A	Submit ISR	Submit ISR	1.09	1.09	Submit ISR	Submit ISR
HP AB378B	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.09
HP AB465A	Submit ISR	Submit ISR	1.49	1.49	Submit ISR	Submit ISR

HP HP-UX 11.31 (IA64)	HUS100		AMS2000/SMS		AMS1000/WMS	
EFI	Direct	Switch	Direct	Switch	Direct	Switch
HP 451871-B21	Submit ISR	Submit ISR	Submit ISR	2.22	Submit ISR	Submit ISR
HP A6795A	Submit ISR	Submit ISR	1.37	1.37	Submit ISR	1.24
HP A6826A	Submit ISR	Submit ISR	1.49	1.49	Submit ISR	Submit ISR
HP A9782A	Submit ISR	Submit ISR	1.49	1.49	Submit ISR	1.49
HP A9784A	Submit ISR	Submit ISR	1.49	1.49	Submit ISR	1.49

**HDS Modular Arrays SAN Boot Support Matrix**

HP AB378A	Submit ISR	Submit ISR	1.09	1.09	Submit ISR	Submit ISR
HP AB378B	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.09
HP AB465A	Submit ISR	Submit ISR	1.49	1.49	Submit ISR	Submit ISR
HP AD355A	Submit ISR	Submit ISR	3.21a3	3.21a3	Submit ISR	Submit ISR
HP AH401A	Submit ISR	Submit ISR	Submit ISR	2.20	Submit ISR	Submit ISR

**HP HP-UX (PA-RISC) HBA Support**

HP HP-UX 11.23 (PA-RISC)	HUS100		AMS2000/SMS		AMS1000/WMS	
FW / FCODE	Direct	Switch	Direct	Switch	Direct	Switch
HP A5158A	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Bundled
HP A6795A	Submit ISR	Submit ISR	Bundled	Bundled	Submit ISR	Bundled
HP A6826A	Submit ISR	Submit ISR	3.03.154	3.03.154	Submit ISR	Submit ISR
HP A9782A	Submit ISR	Submit ISR	3.03.154	3.03.154	Submit ISR	3.03.154
HP A9784A	Submit ISR	Submit ISR	3.03.154	3.03.154	Submit ISR	3.03.154
HP AB378A	Submit ISR	Submit ISR	4.00.90	4.00.90	Submit ISR	Submit ISR
HP AB378B	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	4.00.90
HP AB465A	Submit ISR	Submit ISR	3.03.154	3.03.154	Submit ISR	Submit ISR

HP HP-UX 11.31 (PA-RISC)	HUS100		AMS2000/SMS		AMS1000/WMS	
FW / FCODE	Direct	Switch	Direct	Switch	Direct	Switch
HP A5158A	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Bundled
HP A6795A	Submit ISR	Submit ISR	Bundled	Bundled	Submit ISR	Bundled
HP A6826A	Submit ISR	Submit ISR	3.03.154	3.03.154	Submit ISR	Submit ISR
HP A9782A	Submit ISR	Submit ISR	3.03.154	3.03.154	Submit ISR	3.03.154
HP A9784A	Submit ISR	Submit ISR	3.03.154	3.03.154	Submit ISR	3.03.154
HP AB378A	Submit ISR	Submit ISR	4.00.90	4.00.90	Submit ISR	Submit ISR
HP AB378B	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	4.00.90

**HDS Modular Arrays SAN Boot Support Matrix**

HP AB465A	Submit ISR	Submit ISR	3.03.154	3.03.154	Submit ISR	Submit ISR
-----------	------------	------------	----------	----------	------------	------------

**RedHat Linux (IA32) HBA Support**

Linux RHEL 4.X (IA32)	HUS100		AMS2000/SMS		AMS1000/WMS	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LP10000	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	2.02a1
Emulex LP10000DC	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	2.02a1
Emulex LP11000	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
Emulex LP11002	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
Emulex LPe11000	Submit ISR	Submit ISR	1.70a3 1.71a0 2.00a1	1.70a3 1.71a0 2.00a1	Submit ISR	2.00a1
Emulex LPe11002	Submit ISR	Submit ISR	1.70a3 1.71a0 2.00a1	1.70a3 1.71a0 2.00a1	Submit ISR	2.00a1
QLogic QLA2340	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
QLogic QLA2342	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
QLogic QLA2460	Submit ISR	Submit ISR	1.24 1.29 2.02	1.24 1.29 2.02	Submit ISR	1.29
QLogic QLA2462	Submit ISR	Submit ISR	1.24 1.29 2.02	1.24 1.29 2.02	Submit ISR	1.29
QLogic QLE2460	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	Submit ISR	Submit ISR
QLogic QLE2462	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	Submit ISR	Submit ISR
QLogic QLE2560	Submit ISR	Submit ISR	2.02	2.02	Submit ISR	Submit ISR
QLogic QLE2562	Submit ISR	Submit ISR	2.02	2.02	Submit ISR	Submit ISR
Sun SG-XPCI1FC-EM2	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
Sun SG-XPCI1FC-EM4-Z	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
Sun SG-XPCI1FC-QF4	Submit ISR	Submit ISR	1.24 1.29 2.02	1.24 1.29 2.02	Submit ISR	1.29

**HDS Modular Arrays SAN Boot Support Matrix**

<b>Sun SG-XPCI1FC-QL2</b>	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
<b>Sun SG-XPCI2FC-EM2</b>	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
<b>Sun SG-XPCI2FC-EM4-Z</b>	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
<b>Sun SG-XPCI2FC-QF2-Z</b>	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
<b>Sun SG-XPCI2FC-QF4</b>	Submit ISR	Submit ISR	1.24 1.29 2.02	1.24 1.29 2.02	Submit ISR	Submit ISR
<b>Sun SG-XPCIE1FC-EM4</b>	Submit ISR	Submit ISR	1.70a3 1.71a0 2.00a1	1.70a3 1.71a0 2.00a1	Submit ISR	2.00a1
<b>Sun SG-XPCIE1FC-QF4</b>	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	Submit ISR	Submit ISR
<b>Sun SG-XPCIE2FC-EM4</b>	Submit ISR	Submit ISR	1.70a3 1.71a0 2.00a1	1.70a3 1.71a0 2.00a1	Submit ISR	2.00a1
<b>Sun SG-XPCIE2FC-QF4</b>	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	Submit ISR	Submit ISR

<b>Linux RHEL 5.X (IA32)</b>	<b>HUS100</b>		<b>AMS2000/SMS</b>		<b>AMS1000/WMS</b>	
<b>BIOS</b>	<b>Direct</b>	<b>Switch</b>	<b>Direct</b>	<b>Switch</b>	<b>Direct</b>	<b>Switch</b>
<b>Emulex LP10000</b>	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
<b>Emulex LP10000DC</b>	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
<b>Emulex LP11000</b>	Submit ISR	Submit ISR	1.71a0 2.00a1 2.01a2	1.71a0 2.00a1 2.01a2	Submit ISR	Submit ISR
<b>Emulex LP11002</b>	Submit ISR	Submit ISR	1.71a0 2.00a1 2.01a2	1.71a0 2.00a1 2.01a2	Submit ISR	Submit ISR
<b>Emulex LPe11000</b>	Submit ISR	Submit ISR	1.70a3 1.71a0 2.00a1 2.02a2 3.03a9	1.70a3 1.71a0 2.00a1 2.02a2 3.03a9	Submit ISR	2.00a1
<b>Emulex LPe11002</b>	Submit ISR	Submit ISR	1.70a3 1.71a0 2.00a1 2.02a2 3.03a9	1.70a3 1.71a0 2.00a1 2.02a2 3.03a9	Submit ISR	2.00a1
<b>Emulex LPe12000</b>	Submit ISR	Submit ISR	2.02a2	2.02a2	Submit ISR	Submit ISR
<b>Emulex LPe12002</b>	Submit ISR	Submit ISR	2.02a2	2.02a2	Submit ISR	Submit ISR

**HDS Modular Arrays SAN Boot Support Matrix**

<b>Hitachi FCA-0401/0402</b>	Submit ISR	Submit ISR	Submit ISR	3.03.19	Submit ISR	Submit ISR
<b>QLogic QLA2340</b>	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
<b>QLogic QLA2342</b>	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
<b>QLogic QLA2460</b>	Submit ISR	Submit ISR	1.24 1.29 2.01 2.02 2.10	1.24 1.29 2.01 2.02	Submit ISR	1.29
<b>QLogic QLA2462</b>	Submit ISR	Submit ISR	1.24 1.29 2.01 2.02 2.10	1.24 1.29 2.01 2.02	Submit ISR	1.29
<b>QLogic QLE2460</b>	Submit ISR	Submit ISR	1.29 2.02 2.10	1.29 2.02 2.10	Submit ISR	Submit ISR
<b>QLogic QLE2462</b>	Submit ISR	Submit ISR	1.29 2.02 2.10	1.29 2.02 2.10	Submit ISR	Submit ISR
<b>QLogic QLE2560</b>	Submit ISR	Submit ISR	2.02 2.10	2.02	Submit ISR	Submit ISR
<b>QLogic QLE2562</b>	Submit ISR	Submit ISR	2.02 2.10	2.02	Submit ISR	Submit ISR
<b>Sun SG-XPCI1FC-EM2</b>	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
<b>Sun SG-XPCI1FC-EM4-Z</b>	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
<b>Sun SG-XPCI1FC-QF4</b>	Submit ISR	Submit ISR	1.24 1.29 2.02	1.24 1.29 2.02	Submit ISR	1.29
<b>Sun SG-XPCI1FC-QL2</b>	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
<b>Sun SG-XPCI2FC-EM2</b>	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
<b>Sun SG-XPCI2FC-EM4-Z</b>	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
<b>Sun SG-XPCI2FC-QF2-Z</b>	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
<b>Sun SG-XPCI2FC-QF4</b>	Submit ISR	Submit ISR	1.24 1.29 2.02	1.24 1.29 2.02	Submit ISR	Submit ISR
<b>Sun SG-XPCIE1FC-EM4</b>	Submit ISR	Submit ISR	1.70a3 1.71a0 2.00a1	1.70a3 1.71a0 2.00a1	Submit ISR	2.00a1
<b>Sun SG-XPCIE1FC-QF4</b>	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	Submit ISR	Submit ISR

**HDS Modular Arrays SAN Boot Support Matrix**

Sun SG-XPCIE2FC-EM4	Submit ISR	Submit ISR	1.70a3 1.71a0 2.00a1	1.70a3 1.71a0 2.00a1	Submit ISR	2.00a1
Sun SG-XPCIE2FC-QF4	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	Submit ISR	Submit ISR

Linux RHEL 6.X (IA32)	HUS100		AMS2000/SMS		AMS1000/WMS	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Hitachi HFC0401/0402	Submit ISR	Submit ISR	Submit ISR	10.00.03.07	Submit ISR	Submit ISR
Hitachi HFCE0802	Submit ISR	Submit ISR	Submit ISR	10.00.04.03	Submit ISR	Submit ISR
QLogic QLE2560	Submit ISR	3.00	Submit ISR	Submit ISR	Submit ISR	Submit ISR
QLogic QLE2562	Submit ISR	3.00	Submit ISR	Submit ISR	Submit ISR	Submit ISR

**RedHat Linux (X64) HBA Support**

Linux RHEL 4.X (X64)	HUS100		AMS2000/SMS		AMS1000/WMS	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LP10000	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
Emulex LP10000DC	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
Emulex LP11000	Submit ISR	Submit ISR	1.71a0 2.00a1 2.01a2	1.71a0 2.00a1 2.01a2	Submit ISR	Submit ISR
Emulex LP11002	Submit ISR	Submit ISR	1.71a0 2.00a1 2.01a2	1.71a0 2.00a1 2.01a2	Submit ISR	Submit ISR
Emulex LPe11000	Submit ISR	Submit ISR	1.71a0 2.00a1 2.01a2	1.71a0 2.00a1 2.01a2	Submit ISR	Submit ISR
Emulex LPe11002	Submit ISR	Submit ISR	1.71a0 2.00a1 2.01a2	1.71a0 2.00a1 2.01a2	Submit ISR	Submit ISR
QLogic QLA2340	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
QLogic QLA2342	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
QLogic QLA2460	Submit ISR	Submit ISR	1.29 2.01 2.02	1.29 2.01 2.02	Submit ISR	Submit ISR
QLogic QLA2462	Submit ISR	Submit ISR	1.29 2.01 2.02	1.29 2.01 2.02	Submit ISR	Submit ISR

**HDS Modular Arrays SAN Boot Support Matrix**

<b>QLogic QLE2460</b>	Submit ISR	Submit ISR	1.29 2.01 2.02	1.29 2.01 2.02 2.10	Submit ISR	1.29
<b>QLogic QLE2462</b>	Submit ISR	Submit ISR	1.29 2.01 2.02	1.29 2.01 2.02 2.10	Submit ISR	1.29
<b>QLogic QME2472</b>	Submit ISR	Submit ISR	Submit ISR	2.04	Submit ISR	Submit ISR
<b>Sun SG-XPCI1FC-EM2</b>	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
<b>Sun SG-XPCI1FC-EM4-Z</b>	Submit ISR	Submit ISR	1.71a0 2.00a1 2.01a2	1.71a0 2.00a1 2.01a2	Submit ISR	Submit ISR
<b>Sun SG-XPCI1FC-QF4</b>	Submit ISR	Submit ISR	1.29 2.01 2.02	1.29 2.01 2.02	Submit ISR	Submit ISR
<b>Sun SG-XPCI1FC-QL2</b>	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
<b>Sun SG-XPCI2FC-EM2</b>	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
<b>Sun SG-XPCI2FC-EM4-Z</b>	Submit ISR	Submit ISR	1.71a0 2.00a1 2.01a2	1.71a0 2.00a1 2.01a2	Submit ISR	Submit ISR
<b>Sun SG-XPCI2FC-QF2-Z</b>	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
<b>Sun SG-XPCI2FC-QF4</b>	Submit ISR	Submit ISR	1.29 2.01 2.02	1.29 2.01 2.02	Submit ISR	Submit ISR
<b>Sun SG-XPCIE1FC-EM4</b>	Submit ISR	Submit ISR	1.71a0 2.00a1 2.01a2	1.71a0 2.00a1 2.01a2	Submit ISR	Submit ISR
<b>Sun SG-XPCIE1FC-QF4</b>	Submit ISR	Submit ISR	1.29 2.01 2.02	1.29 2.01 2.02	Submit ISR	1.29
<b>Sun SG-XPCIE2FC-EM4</b>	Submit ISR	Submit ISR	1.71a0 2.00a1 2.01a2	1.71a0 2.00a1 2.01a2	Submit ISR	Submit ISR
<b>Sun SG-XPCIE2FC-QF4</b>	Submit ISR	Submit ISR	1.29 2.01 2.02	1.29 2.01 2.02	Submit ISR	1.29

<b>Linux RHEL 5.X (X64)</b>	<b>HUS100</b>		<b>AMS2000/SMS</b>		<b>AMS1000/WMS</b>	
<b>BIOS</b>	<b>Direct</b>	<b>Switch</b>	<b>Direct</b>	<b>Switch</b>	<b>Direct</b>	<b>Switch</b>
<b>Cisco UCS M81KR</b>	Submit ISR	Submit ISR	Submit ISR	2.0(1q)	Submit ISR	Submit ISR
<b>Emulex LP10000</b>	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR

**HDS Modular Arrays SAN Boot Support Matrix**

<b>Emulex LP1000DC</b>	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
<b>Emulex LP11000</b>	Submit ISR	Submit ISR	1.70a3 1.71a0 2.00a1 2.01a2	1.70a3 1.71a0 2.00a1 2.01a2	Submit ISR	Submit ISR
<b>Emulex LP11002</b>	Submit ISR	Submit ISR	1.70a3 1.71a0 2.00a1 2.01a2	1.70a3 1.71a0 2.00a1 2.01a2	Submit ISR	Submit ISR
<b>Emulex LPe11000</b>	Submit ISR	Submit ISR	1.71a0 2.00a1 2.01a2	1.71a0 2.00a1 2.01a2	Submit ISR	Submit ISR
<b>Emulex LPe11002</b>	Submit ISR	Submit ISR	1.71a0 2.00a1 2.01a2	1.71a0 2.00a1 2.01a2	Submit ISR	Submit ISR
<b>Emulex LPe12000</b>	Submit ISR	2.12a6	Submit ISR	5.03a2	Submit ISR	Submit ISR
<b>Emulex LPe12002</b>	Submit ISR	2.12a6	Submit ISR	5.03a2	Submit ISR	Submit ISR
<b>QLogic QLA2340</b>	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
<b>QLogic QLA2342</b>	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
<b>QLogic QLA2460</b>	Submit ISR	Submit ISR	1.29 2.01 2.02	1.29 2.01 2.02	1.29	1.29
<b>QLogic QLA2462</b>	Submit ISR	Submit ISR	1.29 2.01 2.02	1.29 2.01 2.02	1.29	1.29
<b>QLogic QLE2460</b>	Submit ISR	Submit ISR	1.29 2.01 2.02 2.10	1.29 2.01 2.02 2.10	Submit ISR	1.29
<b>QLogic QLE2462</b>	Submit ISR	Submit ISR	1.29 2.01 2.02 2.10	1.29 2.01 2.02 2.10	Submit ISR	1.29
<b>QLogic QLE2560</b>	Submit ISR	3.00	Submit ISR	Submit ISR	Submit ISR	Submit ISR
<b>QLogic QLE2562</b>	Submit ISR	3.00	Submit ISR	Submit ISR	Submit ISR	Submit ISR
<b>QLogic QME2472</b>	Submit ISR	Submit ISR	Submit ISR	2.04	Submit ISR	Submit ISR
<b>Sun SG-XPCI1FC-EM2</b>	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
<b>Sun SG-XPCI1FC-EM4-Z</b>	Submit ISR	Submit ISR	1.71a0 2.00a1 2.01a2	1.71a0 2.00a1 2.01a2	Submit ISR	Submit ISR
<b>Sun SG-XPCI1FC-QF4</b>	Submit ISR	Submit ISR	1.29 2.01 2.02	1.29 2.01 2.02	Submit ISR	Submit ISR

**HDS Modular Arrays SAN Boot Support Matrix**

Sun SG-XPCI1FC-QL2	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
Sun SG-XPCI2FC-EM2	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
Sun SG-XPCI2FC-EM4-Z	Submit ISR	Submit ISR	1.71a0 2.00a1 2.01a2	1.71a0 2.00a1 2.01a2	Submit ISR	Submit ISR
Sun SG-XPCI2FC-QF2-Z	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
Sun SG-XPCI2FC-QF4	Submit ISR	Submit ISR	1.29 2.01 2.02	1.29 2.01 2.02	Submit ISR	Submit ISR
Sun SG-XPCIE1FC-EM4	Submit ISR	Submit ISR	1.71a0 2.00a1 2.01a2	1.71a0 2.00a1 2.01a2	Submit ISR	Submit ISR
Sun SG-XPCIE1FC-QF4	Submit ISR	Submit ISR	1.29 2.01 2.02	1.29 2.01 2.02	Submit ISR	1.29
Sun SG-XPCIE2FC-EM4	Submit ISR	Submit ISR	1.71a0 2.00a1 2.01a2	1.71a0 2.00a1 2.01a2	Submit ISR	Submit ISR
Sun SG-XPCIE2FC-QF4	Submit ISR	Submit ISR	1.29 2.01 2.02	1.29 2.01 2.02	Submit ISR	1.29
Sun SG-XPCIEFCGBE-Q8-Z	Submit ISR	Submit ISR	2.02	2.02	2.10	2.10

Linux RHEL 6.X (X64)	HUS100		AMS2000/SMS		AMS1000/WMS	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Brocade 1860	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	3.0.0.0
Brocade 825	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	3.0.0.0
Hitachi HFC0401/0402	Submit ISR	Submit ISR	Submit ISR	10.00.03.07	Submit ISR	Submit ISR
Hitachi HFCE0802	Submit ISR	Submit ISR	Submit ISR	10.00.04.03	Submit ISR	Submit ISR

**SuSE Linux (IA32) HBA Support**

Linux SLES 9.0 (IA32)	HUS100		AMS2000/SMS		AMS1000/WMS	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LP10000	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	1.71a0
Emulex LP10000DC	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	1.71a0

**HDS Modular Arrays SAN Boot Support Matrix**

<b>Emulex LP11000</b>	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
<b>Emulex LP11002</b>	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
<b>Emulex LPe11000</b>	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
<b>Emulex LPe11002</b>	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
<b>QLogic QLA2340</b>	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
<b>QLogic QLA2342</b>	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
<b>QLogic QLA2460</b>	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	1.29	1.29
<b>QLogic QLA2462</b>	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	1.29	1.29
<b>QLogic QLE2460</b>	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	1.29	1.29
<b>QLogic QLE2462</b>	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	1.29	1.29

<b>Linux SLES 10.0 (IA32)</b>	<b>HUS100</b>		<b>AMS2000/SMS</b>		<b>AMS1000/WMS</b>	
<b>BIOS</b>	<b>Direct</b>	<b>Switch</b>	<b>Direct</b>	<b>Switch</b>	<b>Direct</b>	<b>Switch</b>
<b>Emulex LP10000</b>	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	1.71a0
<b>Emulex LP10000DC</b>	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	1.71a0
<b>Emulex LP11000</b>	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	1.71a0
<b>Emulex LP11002</b>	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	1.71a0
<b>Emulex LP9802</b>	Submit ISR	Submit ISR	Submit ISR	1.63a2	Submit ISR	Submit ISR
<b>Emulex LPe11000</b>	2.12a6	2.12a6	1.71a0 2.00a1 2.02a2	1.71a0 2.00a1 2.02a2	Submit ISR	Submit ISR
<b>Emulex LPe11002</b>	2.12a6	2.12a6	1.71a0 2.00a1 2.02a2	1.71a0 2.00a1 2.02a2	Submit ISR	Submit ISR
<b>Emulex LPe12000</b>	2.12a6	2.12a6	Submit ISR	Submit ISR	2.02a2	2.02a2
<b>Emulex LPe12002</b>	2.12a6	2.12a6	Submit ISR	Submit ISR	2.02a2	2.02a2
<b>QLogic QLA2340</b>	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
<b>QLogic QLA2342</b>	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
<b>QLogic QLA2460</b>	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	1.29	1.29
<b>QLogic QLA2462</b>	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	1.29	1.29

**HDS Modular Arrays SAN Boot Support Matrix**

QLogic QLE2460	3.00	3.00	1.29 2.02 2.10	1.29 2.02 2.10	1.29 2.10	1.29 2.10
QLogic QLE2462	3.00	3.00	1.29 2.02 2.10	1.29 2.02 2.10	1.29 2.10	1.29 2.10
QLogic QLE2560	3.00	3.00	Submit ISR	Submit ISR	2.02	2.02
QLogic QLE2562	3.00	3.00	Submit ISR	Submit ISR	2.02	2.02

Linux SLES 11.0 (IA32)	HUS100		AMS2000/SMS		AMS1000/WMS	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LPe11000	2.12a6	2.12a6	Submit ISR	Submit ISR	Submit ISR	Submit ISR
Emulex LPe11002	2.12a6	2.12a6	Submit ISR	Submit ISR	Submit ISR	Submit ISR
Emulex LPe12000	Submit ISR	2.12a6	Submit ISR	Submit ISR	Submit ISR	Submit ISR
Emulex LPe12002	Submit ISR	2.12a6	Submit ISR	Submit ISR	Submit ISR	Submit ISR
QLogic QLE2460	Submit ISR	3.00	2.10	2.10	Submit ISR	Submit ISR
QLogic QLE2462	Submit ISR	3.00	2.10	2.10	Submit ISR	Submit ISR
QLogic QLE2560	Submit ISR	3.00	Submit ISR	Submit ISR	Submit ISR	Submit ISR
QLogic QLE2562	Submit ISR	3.00	Submit ISR	Submit ISR	Submit ISR	Submit ISR

**SuSE Linux (X64) HBA Support**

Linux SLES 9.0 (X64)	HUS100		AMS2000/SMS		AMS1000/WMS	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LP10000	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
Emulex LP10000DC	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
Emulex LP11000	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
Emulex LP11002	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
Emulex LPe11000	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1 2.02a2	Submit ISR	Submit ISR
Emulex LPe11002	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1 2.02a2	Submit ISR	Submit ISR
Emulex LPe1150	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1 2.02a2	Submit ISR	Submit ISR
QLogic QLA2340	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
QLogic QLA2342	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
QLogic QLA2460	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	1.29	1.29

**HDS Modular Arrays SAN Boot Support Matrix**

QLogic QLA2462	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	1.29	1.29
QLogic QLE2460	Submit ISR	Submit ISR	1.29 2.02 2.10	1.29 2.02 2.10	1.29	1.29
QLogic QLE2462	Submit ISR	Submit ISR	1.29 2.02 2.10	1.29 2.02 2.10	1.29	1.29

Linux SLES 10.0 (X64)	HUS100		AMS2000/SMS		AMS1000/WMS	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LP10000	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
Emulex LP10000DC	Submit ISR	Submit ISR	1.71a0 2.00a1	1.71a0 2.00a1	Submit ISR	Submit ISR
Emulex LP11000	Submit ISR	Submit ISR	1.71a0 2.00a1 2.72a2	1.71a0 2.00a1 2.72a2	Submit ISR	2.72a2
Emulex LP11002	Submit ISR	Submit ISR	1.71a0 2.00a1 2.72a2	1.71a0 2.00a1 2.72a2	Submit ISR	2.72a2
Emulex LPe11000	2.12a6	2.12a6	1.71a0 2.00a1 2.72a2	1.71a0 2.00a1 2.72a2	Submit ISR	2.72a2
Emulex LPe11002	2.12a6	2.12a6	1.71a0 2.00a1 2.72a2	1.71a0 2.00a1 2.72a2	Submit ISR	2.72a2
Emulex LPe12000	2.12a6	2.12a6	Submit ISR	Submit ISR	Submit ISR	Submit ISR
Emulex LPe12002	2.12a6	2.12a6	Submit ISR	Submit ISR	Submit ISR	Submit ISR
QLogic QLA2340	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
QLogic QLA2342	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
QLogic QLA2460	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	1.29	1.29
QLogic QLA2462	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	1.29	1.29
QLogic QLE2460	3.00	3.00	1.29 2.02	1.29 2.02	1.29	1.29
QLogic QLE2462	3.00	3.00	1.29 2.02	1.29 2.02	1.29	1.29
QLogic QLE2560	3.00	3.00	Submit ISR	Submit ISR	Submit ISR	Submit ISR
QLogic QLE2562	3.00	3.00	Submit ISR	Submit ISR	Submit ISR	Submit ISR

Linux SLES 11.0 (X64)	HUS100		AMS2000/SMS		AMS1000/WMS	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LPe12000	2.12a6	2.12a6	Submit ISR	Submit ISR	Submit ISR	Submit ISR
Emulex LPe12002	2.12a6	2.12a6	Submit ISR	Submit ISR	Submit ISR	Submit ISR

**HDS Modular Arrays SAN Boot Support Matrix**

QLogic QLE2460	Submit ISR	Submit ISR	2.10	2.10	Submit ISR	Submit ISR
QLogic QLE2462	Submit ISR	Submit ISR	2.10	2.10	Submit ISR	Submit ISR
<b>QLogic QLE2560</b>	<b>3.00</b>	<b>3.00</b>	<b>Submit ISR</b>	<b>Submit ISR</b>	<b>Submit ISR</b>	<b>Submit ISR</b>
<b>QLogic QLE2562</b>	<b>3.00</b>	<b>3.00</b>	<b>Submit ISR</b>	<b>Submit ISR</b>	<b>Submit ISR</b>	<b>Submit ISR</b>

**Novell NetWare HBA Support**

NetWare 6.5	<b>HUS100</b>		<b>AMS2000/SMS</b>		<b>AMS1000/WMS</b>	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
QLogic QLA2340	Submit ISR	Submit ISR	1.54	1.54	1.47	Submit ISR
QLogic QLA2342	Submit ISR	Submit ISR	1.54	1.54	1.47	Submit ISR
QLogic QLA2460	Submit ISR	Submit ISR	1.29	1.29	1.24	Submit ISR
QLogic QLA2462	Submit ISR	Submit ISR	1.29	1.29	1.24	Submit ISR
QLogic QLE2460	Submit ISR	Submit ISR	1.29	1.29	1.24	Submit ISR
QLogic QLE2462	Submit ISR	Submit ISR	1.29	1.29	1.24	Submit ISR

**HP OpenVMS (Alpha) HBA Support**

HP OpenVMS 8.2 (Alpha)	<b>HUS100</b>		<b>AMS2000/SMS</b>		<b>AMS1000/WMS</b>	
FW / FCODE	Direct	Switch	Direct	Switch	Direct	Switch
HP DS-KGPSA-CA	Submit ISR	Submit ISR	N/A	3.81a4	N/A	3.92a2
HP FCA2354	Submit ISR	Submit ISR	N/A	3.81a4 3.92a2	N/A	3.92a2
HP FCA2384	Submit ISR	Submit ISR	N/A	1.91a1	N/A	1.90a4
HP FCA2684	Submit ISR	Submit ISR	N/A	1.91a1	N/A	Submit ISR

HP OpenVMS 8.3 (Alpha)	<b>HUS100</b>		<b>AMS2000/SMS</b>		<b>AMS1000/WMS</b>	
FW / FCODE	Direct	Switch	Direct	Switch	Direct	Switch
HP DS-KGPSA-CA	Submit ISR	Submit ISR	N/A	3.81a4	N/A	3.92a2
HP FCA2354	Submit ISR	Submit ISR	N/A	3.81a4 3.92a2	N/A	3.92a2
HP FCA2384	Submit ISR	Submit ISR	N/A	1.91a1	N/A	1.90a4

**HDS Modular Arrays SAN Boot Support Matrix**

HP FCA2684	Submit ISR	Submit ISR	N/A	1.91a1	N/A	Submit ISR
------------	------------	------------	-----	--------	-----	------------

**Sun Solaris (SPARC) HBA Support**

Sun Solaris 9	HUS100		AMS2000/SMS		AMS1000/WMS	
FW / FCODE	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LP10000	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	Submit ISR	1.50a9
Emulex LP10000DC	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	Submit ISR	1.50a9
Emulex LP11000	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	Submit ISR	1.50a9
Emulex LP11002	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	Submit ISR	1.50a9
Emulex LP9802	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.50a9
Emulex LP9802DC	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.50a9
QLogic QLA2340	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.17	1.17
QLogic QLA2342	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.17	1.17
QLogic QLA2460	Submit ISR	Submit ISR	1.26 1.27 2.00	1.26 1.27 2.00	1.24 1.26	1.24 1.26
QLogic QLA2462	Submit ISR	Submit ISR	1.26 1.27 2.00	1.26 1.27 2.00	1.24 1.26	1.24 1.26
Sun SG-XPCI1FC-EM2	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	Submit ISR	1.50a9
Sun SG-XPCI1FC-EM4-Z	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	Submit ISR	1.50a9
Sun SG-XPCI1FC-QF4	Submit ISR	Submit ISR	1.26 1.27 2.00	1.26 1.27 2.00	1.24 1.26	1.24 1.26
Sun SG-XPCI1FC-QL2	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.17	1.17
Sun SG-XPCI2FC-EM2	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	Submit ISR	1.50a9

**HDS Modular Arrays SAN Boot Support Matrix**

<b>Sun SG-XPCI2FC-EM4-Z</b>	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	Submit ISR	1.50a9
<b>Sun SG-XPCI2FC-QF2-Z</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.17	1.17
<b>Sun SG-XPCI2FC-QF4</b>	Submit ISR	Submit ISR	1.26 1.27 2.00	1.26 1.27 2.00	1.24 1.26	1.24 1.26

<b>Sun Solaris 10 (SPARC)</b>	<b>HUS100</b>		<b>AMS2000/SMS</b>		<b>AMS1000/WMS</b>	
<b>FW / FCODE</b>	<b>Direct</b>	<b>Switch</b>	<b>Direct</b>	<b>Switch</b>	<b>Direct</b>	<b>Switch</b>
<b>Emulex LP10000</b>	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	Submit ISR	1.50a9
<b>Emulex LP10000DC</b>	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	Submit ISR	1.50a9
<b>Emulex LP11000</b>	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	Submit ISR	1.50a9
<b>Emulex LP11002</b>	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	Submit ISR	1.50a9
<b>Emulex LP9802</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.50a9
<b>Emulex LP9802DC</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.50a9
<b>Emulex LPe11000</b>	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	Submit ISR	1.90a4
<b>Emulex LPe11002</b>	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	Submit ISR	1.90a4
<b>Emulex LPe12000</b>	Submit ISR	Submit ISR	3.10a3	3.10a3	Submit ISR	Submit ISR
<b>Emulex LPe12002</b>	Submit ISR	Submit ISR	3.10a3	3.10a3	Submit ISR	Submit ISR
<b>QLogic QLA2340</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.17	1.17
<b>QLogic QLA2342</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.17	1.17
<b>QLogic QLA2460</b>	Submit ISR	Submit ISR	1.26 1.27 2.00	1.26 1.27 2.00	1.24 1.26	1.24 1.26
<b>QLogic QLA2462</b>	Submit ISR	Submit ISR	1.26 1.27 2.00	1.26 1.27 2.00	1.24 1.26	1.24 1.26

**HDS Modular Arrays SAN Boot Support Matrix**

<b>QLogic QLE2460</b>	Submit ISR	Submit ISR	2.00	2.00	1.24 1.26 1.27	1.24 1.26 1.27
<b>QLogic QLE2462</b>	Submit ISR	Submit ISR	2.00	2.00	1.24 1.26 1.27	1.24 1.26 1.27
<b>QLogic QLE2560</b>	Submit ISR	Submit ISR	2.00	2.00	Submit ISR	Submit ISR
<b>QLogic QLE2562</b>	Submit ISR	Submit ISR	2.00	2.00	Submit ISR	Submit ISR
<b>Sun SG-XPCI1FC-EM2</b>	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	Submit ISR	1.50a9
<b>Sun SG-XPCI2FC-EM2</b>	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	Submit ISR	1.50a9
<b>Sun SG-XPCI1FC-EM4-Z</b>	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	Submit ISR	1.50a9
<b>Sun SG-XPCI2FC-EM4-Z</b>	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	Submit ISR	1.50a9
<b>Sun SG-XPCIE1FC-EM4</b>	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	Submit ISR	1.90a4
<b>Sun SG-XPCIE2FC-EM4</b>	Submit ISR	Submit ISR	1.50a9 3.00a2 3.01a1	1.50a9 3.00a2 3.01a1	Submit ISR	1.90a4
<b>Sun SG-XPCI1FC-QL2</b>	Submit ISR	Submit ISR	1.17	1.17	1.17	1.17
<b>Sun SG-XPCI2FC-QF2-Z</b>	Submit ISR	Submit ISR	1.17	1.17	1.17	1.17
<b>Sun SG-XPCI1FC-QF4</b>	Submit ISR	Submit ISR	1.26 1.27 2.00 2.01	1.26 1.27 2.00	1.24 1.26	1.24 1.26
<b>Sun SG-XPCI2FC-QF4</b>	Submit ISR	Submit ISR	1.26 1.27 2.00 2.01	1.26 1.27 2.00	1.24 1.26	1.24 1.26
<b>Sun SG-XPCIE1FC-QF4</b>	Submit ISR	Submit ISR	2.00	2.00	1.24 1.26 1.27	1.24 1.26 1.27
<b>Sun SG-XPCIE2FC-QF4</b>	Submit ISR	Submit ISR	2.00	2.00	1.24 1.26 1.27	1.24 1.26 1.27
<b>Sun SG-XPCIE1FC-QF8-Z</b>	Submit ISR	Submit ISR	Submit ISR	2.04	Submit ISR	Submit ISR

**HDS Modular Arrays SAN Boot Support Matrix**

<b>Sun SG-XPCIE2FC-QF8-Z</b>	Submit ISR	Submit ISR	Submit ISR	2.04	Submit ISR	Submit ISR
<b>Sun SG-XPCIEFCGBE-Q8-N</b>	Submit ISR	Submit ISR	Submit ISR	2.04 3.15	Submit ISR	Submit ISR
<b>Sun SG-XPCIEFCGBE-Q8-Z</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.30	2.30

**Sun Solaris 10 (X64) HBA Support**

Sun Solaris 10 (X64) BIOS	HUS100		AMS2000/SMS		AMS1000/WMS	
	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LP10000	Submit ISR	Submit ISR	2.00a1	2.00a1	Submit ISR	Submit ISR
Emulex LP10000DC	Submit ISR	Submit ISR	2.00a1	2.00a1	Submit ISR	Submit ISR
Emulex LP11000	Submit ISR	Submit ISR	1.70a3 2.00a1	1.70a3 2.00a1	Submit ISR	Submit ISR
Emulex LP11002	Submit ISR	Submit ISR	1.70a3 2.00a1	1.70a3 2.00a1	Submit ISR	Submit ISR
Emulex LPe11000	Submit ISR	Submit ISR	2.00a1 2.01a2	2.00a1 2.01a2	Submit ISR	Submit ISR
Emulex LPe11002	Submit ISR	Submit ISR	2.00a1 2.01a2	2.00a1 2.01a2	Submit ISR	Submit ISR
Emulex LPe12000	Submit ISR	Submit ISR	5.03a0	5.03a0	Submit ISR	Submit ISR
Emulex LPe12002	Submit ISR	Submit ISR	5.03a0	5.03a0	Submit ISR	Submit ISR
QLogic QLA2340	Submit ISR	Submit ISR	1.54	1.54	Submit ISR	Submit ISR
QLogic QLA2342	Submit ISR	Submit ISR	1.54	1.54	Submit ISR	Submit ISR
QLogic QLA2460	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	1.24 1.29	1.24 1.29
QLogic QLA2462	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	1.24 1.29	1.24 1.29
QLogic QLE2460	Submit ISR	Submit ISR	1.26 2.02	1.26 2.02	Submit ISR	Submit ISR
QLogic QLE2462	Submit ISR	Submit ISR	1.26 2.02	1.26 2.02	Submit ISR	Submit ISR
QLogic QLE2560	Submit ISR	Submit ISR	1.26 2.01 2.02	1.26 2.01 2.02	Submit ISR	Submit ISR
QLogic QLE2562	Submit ISR	Submit ISR	1.26 2.01 2.02	1.26 2.01 2.02	Submit ISR	Submit ISR
<b>Sun SG-XPCI1FC-EM2</b>	Submit ISR	Submit ISR	2.00a1	2.00a1	Submit ISR	Submit ISR

**HDS Modular Arrays SAN Boot Support Matrix**

Sun SG-XPCI2FC-EM2	Submit ISR	Submit ISR	2.00a1	2.00a1	Submit ISR	Submit ISR
Sun SG-XPCI1FC-EM4-Z	Submit ISR	Submit ISR	1.70a3 2.00a1 5.03a0	1.70a3 2.00a1 5.03a0	Submit ISR	Submit ISR
Sun SG-XPCI2FC-EM4-Z	Submit ISR	Submit ISR	1.70a3 2.00a1 5.03a0	1.70a3 2.00a1 5.03a0	Submit ISR	Submit ISR
Sun SG-XPCIE1FC-EM4	Submit ISR	Submit ISR	2.00a1 2.01a2 5.01a9	2.00a1 2.01a2	Submit ISR	Submit ISR
Sun SG-XPCIE2FC-EM4	Submit ISR	Submit ISR	2.00a1 2.01a2 5.01a9	2.00a1 2.01a2	Submit ISR	Submit ISR
Sun SG-XPCI1FC-QL2	Submit ISR	Submit ISR	1.54	1.54	Submit ISR	Submit ISR
Sun SG-XPCI2FC-QF2	Submit ISR	Submit ISR	1.47 1.54	1.47 1.54	Submit ISR	Submit ISR
Sun SG-XPCI1FC-QF4	Submit ISR	Submit ISR	1.29 2.00 2.02	1.29 2.00 2.02	1.24 1.29	1.24 1.29
Sun SG-XPCI2FC-QF4	Submit ISR	Submit ISR	1.29 2.00 2.02	1.29 2.00 2.02	1.24 1.29	1.24 1.29
Sun SG-XPCIE1FC-QF4	Submit ISR	Submit ISR	1.26 2.01 2.02	1.26 2.02	Submit ISR	Submit ISR
Sun SG-XPCIE2FC-QF4	Submit ISR	Submit ISR	1.26 2.01 2.02	1.26 2.02	Submit ISR	Submit ISR
Sun SG-XPCIEFCGBE-Q8-Z	Submit ISR	Submit ISR	2.30	2.30	2.30	2.30
Sun SG-XPCIEFCGBE-Q8-N	Submit ISR	Submit ISR	Submit ISR	3.15	Submit ISR	Submit ISR

**HP Tru64 HBA Support**

HP Tru64 5.1B FW / FCODE	HUS100		AMS2000/SMS		AMS1000/WMS	
	Direct	Switch	Direct	Switch	Direct	Switch
HP FCA2384	Submit ISR	Submit ISR	N/A	1.91x6	N/A	Submit ISR
HP FCA2684	Submit ISR	Submit ISR	N/A	Submit ISR	N/A	Submit ISR

**IBM VIOS HBA Support**

**HDS Modular Arrays SAN Boot Support Matrix**

IBM VIOS 1.x	HUS100		AMS2000/SMS		AMS1000/WMS	
FW / FCODE	Direct	Switch	Direct	Switch	Direct	Switch
IBM 5716	Submit ISR	Submit ISR	Submit ISR	1.90a4	Submit ISR	Submit ISR

IBM VIOS 2.x	HUS100		AMS2000/SMS		AMS1000/WMS	
FW / FCODE	Direct	Switch	Direct	Switch	Direct	Switch
IBM 5716	Submit ISR	Submit ISR	1.91a5	1.91a5	1.91a5	1.91a5
IBM 5735	Not supported	Submit ISR	Not supported	1.11x4	Not supported	Submit ISR
IBM 5758	Submit ISR	Submit ISR	Submit ISR	2.71x4 2.71x10	Submit ISR	2.71x4 2.71x10
IBM 5759	Submit ISR	Submit ISR	Submit ISR	2.71x4 2.71x10	Submit ISR	2.71x4 2.71x10
IBM 6239	Submit ISR	Submit ISR	1.92a1	1.92a1	1.92a1	1.92a1

**VMWare ESX (IA32) HBA Support**

VMWare ESX 3.5 (IA32)	HUS100		AMS2000/SMS		AMS1000/WMS	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LP10000	Submit ISR	Submit ISR	1.70a3	1.70a3	Submit ISR	Submit ISR
Emulex LP10000DC	Submit ISR	Submit ISR	1.70a3	1.70a3	Submit ISR	Submit ISR
Emulex LP11000	Submit ISR	Submit ISR	1.70a3	1.70a3	Submit ISR	Submit ISR
Emulex LP11002	Submit ISR	Submit ISR	1.70a3	1.70a3	Submit ISR	Submit ISR
Emulex LPe11000	Submit ISR	Submit ISR	1.70a3 2.00a1 2.01a2	1.70a3 2.01a2 2.72a2	Submit ISR	Submit ISR
Emulex LPe11002	Submit ISR	Submit ISR	1.70a3 2.00a1 2.01a2	1.70a3 2.01a2 2.72a2	Submit ISR	Submit ISR
Emulex LPe12000	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.01a2
Emulex LPe12002	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.01a2
QLogic QLA2340	Submit ISR	Submit ISR	1.42	1.42	Submit ISR	1.43
QLogic QLA2342	Submit ISR	Submit ISR	1.42	1.42	Submit ISR	1.43
QLogic QLA2460	Submit ISR	Submit ISR	1.24 1.29	1.24 1.29	Submit ISR	1.29
QLogic QLA2462	Submit ISR	Submit ISR	1.24 1.29	1.24 1.29	Submit ISR	1.29

**HDS Modular Arrays SAN Boot Support Matrix**

<b>QLogic QLA4050C</b>	Submit ISR	Submit ISR	1.13	N/A	Submit ISR	Submit ISR
<b>QLogic QLE2460</b>	Submit ISR	Submit ISR	1.24 1.29	1.24 1.29	Submit ISR	Submit ISR
<b>QLogic QLE2462</b>	Submit ISR	Submit ISR	1.24 1.29	1.24 1.29	Submit ISR	Submit ISR
<b>QLogic QLE2560</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.00
<b>QLogic QLE2562</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.00
<b>Sun SG-XPCI1FC-QL2</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.43
<b>Sun SG-XPCI2FC-QF2-Z</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.43
<b>Sun SG-XPCIE2FC-QB4-Z</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.29

<b>VMWare ESX 4.X (IA32)</b>	<b>HUS100</b>		<b>AMS2000/SMS</b>		<b>AMS1000/WMS</b>	
<b>BIOS</b>	<b>Direct</b>	<b>Switch</b>	<b>Direct</b>	<b>Switch</b>	<b>Direct</b>	<b>Switch</b>
<b>Emulex LP11000</b>	Submit ISR	Submit ISR	2.72a2	2.72a2	2.72a2	2.72a2
<b>Emulex LP11002</b>	Submit ISR	Submit ISR	2.72a2	2.72a2	2.72a2	2.72a2
<b>Emulex LPe11000</b>	Submit ISR	Submit ISR	2.02a1 2.02a2	2.02a1 2.02a2	Submit ISR	2.02a2
<b>Emulex LPe11002</b>	Submit ISR	Submit ISR	2.02a1 2.02a2	2.02a1 2.02a2	Submit ISR	2.02a2
<b>Emulex LPe12000</b>	Submit ISR	Submit ISR	1.10a5 2.01a2	1.10a5 2.01a2 2.02a1	Submit ISR	Submit ISR
<b>Emulex LPe12002</b>	Submit ISR	Submit ISR	1.10a5 2.01a2	1.10a5 2.01a2 2.02a1	Submit ISR	Submit ISR
<b>QLogic QLA2460</b>	Submit ISR	Submit ISR	1.27	1.27	1.27	1.27
<b>QLogic QLA2462</b>	Submit ISR	Submit ISR	1.27	1.27	1.27	1.27
<b>QLogic QLE2460</b>	Submit ISR	Submit ISR	1.08 2.02 2.10	1.08 2.02 2.10	1.04 1.08	1.08 2.02
<b>QLogic QLE2462</b>	Submit ISR	Submit ISR	1.08 2.02 2.10	1.08 2.02 2.10	1.04 1.08	1.08 2.02
<b>QLogic QLE2560</b>	Submit ISR	Submit ISR	2.02 2.10 3.00	2.00 2.02	Submit ISR	
<b>QLogic QLE2562</b>	Submit ISR	Submit ISR	2.02 2.10 3.00	2.00 2.02	Submit ISR	Submit ISR

**HDS Modular Arrays SAN Boot Support Matrix**

QLogic QLE4062C	Submit ISR	Submit ISR	3.00.01.53	3.00.01.53	Submit ISR	Submit ISR
-----------------	------------	------------	------------	------------	------------	------------

**VMWare ESX (X64) HBA Support**

VMWare ESX 3.5 (X64)	HUS100		AMS2000/SMS		AMS1000/WMS	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
Emulex LP10000	Submit ISR	Submit ISR	1.70a3	1.70a3	Submit ISR	Submit ISR
Emulex LP10000DC	Submit ISR	Submit ISR	1.70a3	1.70a3	Submit ISR	Submit ISR
Emulex LP11000	Submit ISR	Submit ISR	1.70a3	1.70a3	Submit ISR	Submit ISR
Emulex LP11002	Submit ISR	Submit ISR	1.70a3	1.70a3	Submit ISR	Submit ISR
Emulex LPe11000	Submit ISR	Submit ISR	1.70a3 2.00a1 2.01a2	1.70a3 2.01a2 2.72a2	Submit ISR	Submit ISR
Emulex LPe11002	Submit ISR	Submit ISR	1.70a3 2.00a1 2.01a2	1.70a3 2.01a2 2.72a2	Submit ISR	Submit ISR
Emulex LPe12000	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.01a2
Emulex LPe12002	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.01a2
HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	2.04	Submit ISR	1.29
QLogic QLA2340	Submit ISR	Submit ISR	1.42	1.42 2.04	Submit ISR	Submit ISR
QLogic QLA2342	Submit ISR	Submit ISR	1.42	1.42 2.04	Submit ISR	Submit ISR
QLogic QLA2460	Submit ISR	Submit ISR	1.24 1.29	1.24 1.29	Submit ISR	Submit ISR
QLogic QLA2462	Submit ISR	Submit ISR	1.24 1.29	1.24 1.29	Submit ISR	Submit ISR
QLogic QLA4050C	Submit ISR	Submit ISR	Submit ISR	1.13	Submit ISR	Submit ISR
QLogic QLE2460	Submit ISR	Submit ISR	1.24 1.29	1.24 1.29	Submit ISR	1.29
QLogic QLE2462	Submit ISR	Submit ISR	1.24 1.29	1.24 1.29	Submit ISR	1.29
QLogic QLE2560	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.00	Submit ISR
QLogic QLE2562	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.00	Submit ISR
Sun SG-XPCIE1FC-EM4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR

**HDS Modular Arrays SAN Boot Support Matrix**

Sun SG-XPCIE1FC-QF4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.29
Sun SG-XPCIE2FC-EM4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR
Sun SG-XPCIE2FC-QF4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.29

VMWare ESX 4.X (X64)	HUS100		AMS2000/SMS		AMS1000/WMS	
BIOS	Direct	Switch	Direct	Switch	Direct	Switch
<b>Brocade 1860</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	3.0.0.0
<b>Brocade 825</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	3.0.0.0
Emulex LPe11000	Submit ISR	Submit ISR	2.02a1 2.02a2 2.72a2	2.02a1 2.02a2 2.72a2	2.72a2	2.02a2 2.72a2
Emulex LPe11002	Submit ISR	Submit ISR	2.02a1 2.02a2 2.72a2	2.02a1 2.02a2 2.72a2	2.72a2	2.02a2 2.72a2
Emulex LPe12000	Submit ISR	Submit ISR	1.10a5 2.01a2	1.10a5 2.01a2 2.02a1	Submit ISR	Submit ISR
Emulex LPe12002	Submit ISR	Submit ISR	1.10a5 2.01a2	1.10a5 2.01a2 2.02a1	Submit ISR	Submit ISR
<b>Hitachi HFC0401/0402</b>	Submit ISR	Submit ISR	Submit ISR	10.00.03.07	Submit ISR	Submit ISR
<b>Hitachi HFCE0802</b>	Submit ISR	Submit ISR	Submit ISR	10.00.04.03	Submit ISR	Submit ISR
HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	2.04	Submit ISR	Submit ISR
HP 403621-B21	Submit ISR	Submit ISR	3.03a9	3.03a9 6.03a11	Submit ISR	Submit ISR
HP 451871-B21	Submit ISR	Submit ISR	1.27	1.27	1.27	1.27
<b>HP NC551i</b>	Submit ISR	Submit ISR	Submit ISR	4.0.360.15	Submit ISR	Submit ISR
IBM 39Y6146	Submit ISR	Submit ISR	Submit ISR	3.00.01.53	Submit ISR	Submit ISR
<b>IBM 44X1940</b>	Submit ISR	Submit ISR	Submit ISR	2.09	Submit ISR	Submit ISR
<b>IBM 46M6065</b>	Submit ISR	Submit ISR	Submit ISR	2.09	Submit ISR	Submit ISR
QLogic QLA2340	Submit ISR	Submit ISR	Submit ISR	2.04	Submit ISR	Submit ISR
QLogic QLA2342	Submit ISR	Submit ISR	Submit ISR	2.04	Submit ISR	Submit ISR
QLogic QLA2460	Submit ISR	Submit ISR	1.27	1.27	1.27	1.27

**HDS Modular Arrays SAN Boot Support Matrix**

<b>QLogic QLA2462</b>	Submit ISR	Submit ISR	1.27	1.27	1.27	1.27
<b>QLogic QLE2460</b>	Submit ISR	Submit ISR	1.08 2.02 2.10	1.08 2.02 2.10	1.04 1.08	1.08 2.02
<b>QLogic QLE2462</b>	Submit ISR	Submit ISR	1.08 2.02 2.10	1.08 2.02 2.10	1.04 1.08	1.08 2.02
<b>QLogic QLE2560</b>	Submit ISR	Submit ISR	2.00 2.02 3.00	2.00 2.02 2.37 3.00	Submit ISR	Submit ISR
<b>QLogic QLE2562</b>	Submit ISR	Submit ISR	2.00 2.02 3.00	2.00 2.02 2.37 3.00	Submit ISR	Submit ISR
<b>QLogic QLE4060C</b>	Submit ISR	Submit ISR	3.00.01.53	3.00.01.53	Submit ISR	Submit ISR

<b>VMWare ESX 5.X (X64)</b>	<b>HUS100</b>		<b>AMS2000/SMS</b>		<b>AMS1000/WMS</b>	
<b>BIOS</b>	<b>Direct</b>	<b>Switch</b>	<b>Direct</b>	<b>Switch</b>	<b>Direct</b>	<b>Switch</b>
<b>Emulex LPe12000</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.02a2
<b>Emulex LPe12002</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.02a2
<b>Hitachi HFC0401/0402</b>	Submit ISR	Submit ISR	Submit ISR	10.00.03.07	Submit ISR	Submit ISR
<b>Hitachi HFCE0802</b>	Submit ISR	Submit ISR	Submit ISR	10.00.04.03	Submit ISR	Submit ISR
<b>QLogic QLE2560</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.02	2.02
<b>QLogic QLE2562</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.02	2.02

**Microsoft Windows (IA32) HBA Support**

<b>Microsoft Windows 2003 (IA32)</b>	<b>HUS100</b>		<b>AMS2000/SMS</b>		<b>AMS1000/WMS</b>	
<b>BIOS</b>	<b>Direct</b>	<b>Switch</b>	<b>Direct</b>	<b>Switch</b>	<b>Direct</b>	<b>Switch</b>
<b>Emulex LP10000</b>	Submit ISR	Submit ISR	1.71a0 2.01a2	1.71a0 2.01a2	2.01a2 2.02a2	1.70a1 1.70a2 1.71a0
<b>Emulex LP10000DC</b>	Submit ISR	Submit ISR	1.71a0 2.01a2	1.71a0 2.01a2	2.01a2 2.02a2	1.70a1 1.70a2 1.71a0
<b>Emulex LP11000</b>	Submit ISR	Submit ISR	1.71a0 2.01a2	1.71a0 2.01a2	2.01a2 2.02a2	1.71a0
<b>Emulex LP11002</b>	Submit ISR	Submit ISR	1.71a0 2.01a2	1.71a0 2.01a2	2.01a2 2.02a2	1.71a0

**HDS Modular Arrays SAN Boot Support Matrix**

<b>Emulex LPe11000</b>	Submit ISR	Submit ISR	1.71a0 2.01a2	1.71a0 2.01a2	2.01a2 2.02a2	1.70a3
<b>Emulex LPe11002</b>	Submit ISR	Submit ISR	1.71a0 2.01a2	1.71a0 2.01a2	2.01a2 2.02a2	1.70a3
<b>Emulex LPe12000</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.02a2	Submit ISR
<b>Emulex LPe12002</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.02a2	Submit ISR
<b>Hitachi FCA-0401/0402</b>	Submit ISR	Submit ISR	Submit ISR	3.03.19	Submit ISR	Submit ISR
<b>HP 403621-B21</b>	Submit ISR	Submit ISR	Submit ISR	6.03a11	3.00a4	3.00a4
<b>HP 456972-B21</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	3.03a9
<b>IBM 26R0836</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.47	1.47
<b>IBM 46M6065</b>	Submit ISR	Submit ISR	Submit ISR	2.04	Submit ISR	Submit ISR
<b>QLogic QLA2340</b>	Submit ISR	Submit ISR	1.52 1.54	1.25 1.52 1.54	Submit ISR	1.04 1.21 1.43 1.47 1.54
<b>QLogic QLA2342</b>	Submit ISR	Submit ISR	1.52 1.54	1.25 1.52 1.54	Submit ISR	1.04 1.21 1.43 1.47 1.54
<b>QLogic QLA2460</b>	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	Submit ISR	1.04 1.12 1.24
<b>QLogic QLA2462</b>	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	Submit ISR	1.04 1.12 1.24
<b>QLogic QLE2460</b>	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	Submit ISR	1.04
<b>QLogic QLE2462</b>	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	Submit ISR	1.04
<b>Sun SG-XPCI1FC-EM2</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.70a1 1.70a2 1.71a0
<b>Sun SG-XPCI2FC-EM2</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.70a1 1.70a2 1.71a0
<b>Sun SG-XPCI1FC-EM4-Z</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.71a0
<b>Sun SG-XPCI2FC-EM4-Z</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.71a0

**HDS Modular Arrays SAN Boot Support Matrix**

<b>Sun SG-XPCIE1FC-EM4</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.70a3
<b>Sun SG-XPCIE2FC-EM4</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.70a3
<b>Sun SG-XPCI1FC-QL2</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.04 1.21 1.43 1.47
<b>Sun SG-XPCI2FC-QF2-Z</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.04 1.21 1.43 1.47
<b>Sun SG-XPCI1FC-QF4</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.04 1.24
<b>Sun SG-XPCI2FC-QF4</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.04 1.24
<b>Sun SG-XPCIE1FC-QF4</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.04
<b>Sun SG-XPCIE2FC-QF4</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.04

<b>Microsoft Windows 2008 (IA32)</b>	<b>HUS100</b>		<b>AMS2000/SMS</b>		<b>AMS1000/WMS</b>	
<b>BIOS</b>	<b>Direct</b>	<b>Switch</b>	<b>Direct</b>	<b>Switch</b>	<b>Direct</b>	<b>Switch</b>
<b>Brocade 825</b>	Submit ISR	Submit ISR	Submit ISR	2.1.0.0	Submit ISR	2.1.0.0
<b>Emulex LP10000</b>	Submit ISR	Submit ISR	1.71a0 2.01a2	1.71a0 2.01a2	2.01a2 2.02a2	1.70a1 1.70a2 1.71a0
<b>Emulex LP10000DC</b>	Submit ISR	Submit ISR	1.71a0 2.01a2	1.71a0 2.01a2	2.01a2 2.02a2	1.70a1 1.70a2 1.71a0
<b>Emulex LP11000</b>	Submit ISR	Submit ISR	1.71a0 2.01a2	1.71a0 2.01a2	2.01a2 2.02a2	1.71a0
<b>Emulex LP11002</b>	Submit ISR	Submit ISR	1.71a0 2.01a2	1.71a0 2.01a2	2.01a2 2.02a2	1.71a0
<b>Emulex LPe11000</b>	2.12a6	2.12a6	1.71a0 2.01a2	1.71a0 2.01a2	2.01a2 2.02a2	1.70a3
<b>Emulex LPe11002</b>	2.12a6	2.12a6	1.71a0 2.01a2	1.71a0 2.01a2	2.01a2 2.02a2	1.70a3
<b>Emulex LPe12000</b>	2.12a6	2.12a6	Submit ISR	2.02a2	2.02a2	2.02a2
<b>Emulex LPe12002</b>	2.12a6	2.12a6	Submit ISR	2.02a2	2.02a2	2.02a2
<b>Hitachi FCA-0401/0402</b>	Submit ISR	Submit ISR	Submit ISR	3.03.19	Submit ISR	Submit ISR
<b>Hitachi HFC0401/0402</b>	Submit ISR	Submit ISR	Submit ISR	10.00.03.07	Submit ISR	Submit ISR
<b>Hitachi HFCE0802</b>	Submit ISR	Submit ISR	Submit ISR	10.00.04.03	Submit ISR	Submit ISR
<b>HP 403621-B21</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	3.00a4	3.00a4

**HDS Modular Arrays SAN Boot Support Matrix**

<b>HP 456972-B21</b>	Submit ISR	Submit ISR	Submit ISR	3.03a9	Submit ISR	3.03a9
<b>IBM 26R0836</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.47	1.47
<b>QLogic QLA2340</b>	Submit ISR	Submit ISR	1.52 1.54	1.29 1.52 1.54	Submit ISR	1.04 1.21 1.29 1.43 1.47
<b>QLogic QLA2342</b>	Submit ISR	Submit ISR	1.52 1.54	1.29 1.52 1.54	Submit ISR	1.04 1.21 1.29 1.43 1.47
<b>QLogic QLA2460</b>	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	Submit ISR	1.04 1.12 1.24 1.29
<b>QLogic QLA2462</b>	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	Submit ISR	1.04 1.12 1.24 1.29
<b>QLogic QLE2460</b>	3.00	3.00	1.29 2.02	1.29 2.02	Submit ISR	1.04 1.12
<b>QLogic QLE2462</b>	3.00	3.00	1.29 2.02	1.29 2.02	Submit ISR	1.04 1.12
<b>QLogic QLE2560</b>	3.00	3.00	Submit ISR	Submit ISR	Submit ISR	Submit ISR
<b>QLogic QLE2562</b>	3.00	3.00	Submit ISR	Submit ISR	Submit ISR	Submit ISR
<b>Sun SG-XPCI1FC-EM2</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.70a1 1.70a2 1.71a0
<b>Sun SG-XPCI1FC-EM4-Z</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.71a0
<b>Sun SG-XPCI1FC-QF4</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.04 1.24
<b>Sun SG-XPCI1FC-QL2</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.04 1.21 1.43 1.47
<b>Sun SG-XPCI2FC-EM2</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.70a1 1.70a2 1.71a0
<b>Sun SG-XPCI2FC-EM4-Z</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.71a0
<b>Sun SG-XPCI2FC-QF2-Z</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.04 1.21 1.43 1.47

**HDS Modular Arrays SAN Boot Support Matrix**

Sun SG-XPCI2FC-QF4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.04 1.24
Sun SG-XPCIE1FC-EM4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.70a3
Sun SG-XPCIE1FC-QF4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.04
Sun SG-XPCIE2FC-EM4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.70a3
Sun SG-XPCIE2FC-QF4	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.04

**Microsoft Windows (X64) HBA Support**

Microsoft Windows 2003 (X64)	HUS100		AMS2000/SMS		AMS1000/WMS	
	Direct	Switch	Direct	Switch	Direct	Switch
BIOS						
Brocade 825	Submit ISR	Submit ISR	Submit ISR	1.1.0.6	Submit ISR	Submit ISR
Emulex LP10000	Submit ISR	Submit ISR	1.71a0 2.01a2	1.71a0 2.01a2	2.01a2 2.02a2	1.71a0
Emulex LP10000DC	Submit ISR	Submit ISR	1.71a0 2.01a2	1.71a0 2.01a2	2.01a2 2.02a2	1.71a0
Emulex LP11000	Submit ISR	Submit ISR	1.71a0 2.01a2	1.71a0 2.01a2	2.01a2 2.02a2	1.71a0
Emulex LP11002	Submit ISR	Submit ISR	1.71a0 2.01a2	1.71a0 2.01a2	2.01a2 2.02a2	1.71a0
Emulex LP9802	Submit ISR	Submit ISR	Submit ISR	2.01a2	Submit ISR	Submit ISR
Emulex LPe11000	Submit ISR	Submit ISR	1.71a0 2.01a2	1.71a0 2.01a2	2.01a2 2.02a2	1.70a3 1.71a0 2.00a1
Emulex LPe11002	Submit ISR	Submit ISR	1.71a0 2.01a2	1.71a0 2.01a2	2.01a2 2.02a2	1.70a3 1.71a0 2.00a1
Emulex LPe12000	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.02a2	Submit ISR
Emulex LPe12002	Submit ISR	Submit ISR	Submit ISR	Submit ISR	2.02a2	Submit ISR
Hitachi FCA-0401/0402	Submit ISR	Submit ISR	Submit ISR	3.03.19	Submit ISR	Submit ISR
HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.26 1.29
HP 403621-B21	Submit ISR	Submit ISR	Submit ISR	6.03a7 6.03a11	Submit ISR	3.00a4
HP 456972-B21	Submit ISR	Submit ISR	Submit ISR	3.03a9	Submit ISR	3.03a9
IBM 46M6065	Submit ISR	Submit ISR	Submit ISR	2.04	Submit ISR	Submit ISR

**HDS Modular Arrays SAN Boot Support Matrix**

<b>QLogic QLA2340</b>	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
<b>QLogic QLA2342</b>	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
<b>QLogic QLA2460</b>	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	Submit ISR	1.04
<b>QLogic QLA2462</b>	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	Submit ISR	1.04
<b>QLogic QLE2460</b>	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	1.26 1.29	1.04 1.26 1.29
<b>QLogic QLE2462</b>	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	1.26 1.29	1.04 1.26 1.29
<b>QLogic QME2472</b>	Submit ISR	Submit ISR	Submit ISR	2.04	Submit ISR	Submit ISR
<b>Sun SG-XPCI1FC-EM2</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.71a0
<b>Sun SG-XPCI1FC-EM4-Z</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.71a0
<b>Sun SG-XPCI1FC-QF4</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.04
<b>Sun SG-XPCI2FC-EM2</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.71a0
<b>Sun SG-XPCI2FC-EM4-Z</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.71a0
<b>Sun SG-XPCI2FC-QF4</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.04
<b>Sun SG-XPCIE1FC-EM4</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.70a3 1.71a0 2.00a1
<b>Sun SG-XPCIE1FC-QF4</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.26 1.29	1.04 1.26 1.29
<b>Sun SG-XPCIE2FC-EM4</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.70a3 1.71a0 2.00a1
<b>Sun SG-XPCIE2FC-QF4</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.26 1.29	1.04 1.26 1.29

Microsoft Windows 2008 (X64)	HUS100		AMS2000/SMS		AMS1000/WMS	
	Direct	Switch	Direct	Switch	Direct	Switch
<b>BIOS</b>						
<b>Cisco UCS M81KR</b>	Submit ISR	Submit ISR	Submit ISR	2.0(1q)	Submit ISR	Submit ISR
<b>Emulex LP10000</b>	Submit ISR	Submit ISR	1.71a0 2.01a2	1.71a0 2.01a2	2.01a2 2.02a2	1.71a0

**HDS Modular Arrays SAN Boot Support Matrix**

Emulex LP1000DC	Submit ISR	Submit ISR	1.71a0 2.01a2	1.71a0 2.01a2	2.01a2 2.02a2	1.71a0
Emulex LP11000	Submit ISR	Submit ISR	1.71a0 2.01a2	1.71a0 2.01a2	2.01a2 2.02a2	1.71a0
Emulex LP11002	Submit ISR	Submit ISR	1.71a0 2.01a2	1.71a0 2.01a2	2.01a2 2.02a2	1.71a0
Emulex LPe11000	Submit ISR	Submit ISR	1.71a0 2.01a2 2.72a2	1.71a0 2.01a2 2.02a1	2.01a2 2.02a2	1.70a3 1.71a0 2.00a1 2.02a1
Emulex LPe11002	Submit ISR	Submit ISR	1.71a0 2.01a2 2.72a2	1.71a0 2.01a2 2.02a1	2.01a2 2.02a2	1.70a3 1.71a0 2.00a1 2.02a1
Emulex LPe12000	2.12a6	2.12a6	Submit ISR	2.02a1	2.02a2	2.02a1
Emulex LPe12002	2.12a6	2.12a6	Submit ISR	2.02a1	2.02a2	2.02a1
Hitachi HFC0401/0402	Submit ISR	Submit ISR	Submit ISR	10.00.03.07	Submit ISR	Submit ISR
Hitachi HFCE0802	Submit ISR	Submit ISR	Submit ISR	10.00.04.03	Submit ISR	Submit ISR
HP 403619-B21	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.26 1.29
HP 403621-B21	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	3.00a4
HP 456972-B21	Submit ISR	Submit ISR	Submit ISR	3.03a9	Submit ISR	3.03a9
IBM 44X1945	Submit ISR	Submit ISR	Submit ISR	2.09	Submit ISR	Submit ISR
QLogic QLA2340	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
QLogic QLA2342	Submit ISR	Submit ISR	1.52 1.54	1.52 1.54	Submit ISR	Submit ISR
QLogic QLA2460	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	Submit ISR	1.04
QLogic QLA2462	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	Submit ISR	1.04
QLogic QLE2460	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	1.26 1.29	1.04 1.26 1.29
QLogic QLE2462	Submit ISR	Submit ISR	1.29 2.02	1.29 2.02	1.26 1.29	1.04 1.26 1.29
QLogic QLE2560	3.00	3.00	Submit ISR	Submit ISR	Submit ISR	Submit ISR
QLogic QLE2562	3.00	3.00	Submit ISR	Submit ISR	Submit ISR	Submit ISR
Sun SG-XPCI1FC-EM2	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.71a0
Sun SG-XPCI1FC-EM4-Z	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.71a0

**HDS Modular Arrays SAN Boot Support Matrix**

<b>Sun SG-XPCI1FC-QF4</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.04
<b>Sun SG-XPCI2FC-EM2</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.71a0
<b>Sun SG-XPCI2FC-EM4-Z</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.71a0
<b>Sun SG-XPCI2FC-QF4</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.04
<b>Sun SG-XPCIE1FC-EM4</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.70a3 1.71a0 2.00a1
<b>Sun SG-XPCIE1FC-QF4</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.26 1.29	1.04 1.26 1.29
<b>Sun SG-XPCIE2FC-EM4</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.70a3 1.71a0 2.00a1
<b>Sun SG-XPCIE2FC-QF4</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	1.26 1.29	1.04 1.26 1.29

<b>Microsoft Windows 2008 R2 (X64)</b>	<b>HUS100</b>		<b>AMS2000/SMS</b>		<b>AMS1000/WMS</b>	
<b>BIOS</b>	<b>Direct</b>	<b>Switch</b>	<b>Direct</b>	<b>Switch</b>	<b>Direct</b>	<b>Switch</b>
<b>Brocade 1020</b>	Submit ISR	Submit ISR	Submit ISR	2.3.0.2	Submit ISR	2.3.0.2
<b>Brocade 1860</b>	Submit ISR	Submit ISR	Submit ISR	Submit ISR	Submit ISR	3.0.0.0
<b>Brocade 825</b>	Submit ISR	Submit ISR	Submit ISR	2.3.0.2	Submit ISR	2.3.0.0 2.3.0.2 3.0.0.0
<b>Emulex LPe12000</b>	Submit ISR	Submit ISR	Submit ISR	3.03a9	Submit ISR	Submit ISR
<b>Emulex LPe12002</b>	Submit ISR	Submit ISR	Submit ISR	3.03a9	Submit ISR	Submit ISR
<b>Hitachi FCA-0401/0402</b>	Submit ISR	Submit ISR	Submit ISR	3.03.19	Submit ISR	Submit ISR
<b>Hitachi HFC0401/0402</b>	Submit ISR	Submit ISR	Submit ISR	10.00.03.07	Submit ISR	Submit ISR
<b>Hitachi HFCE0802</b>	Submit ISR	Submit ISR	Submit ISR	10.00.04.03	Submit ISR	Submit ISR
<b>HP 403619-B21</b>	Submit ISR	Submit ISR	Submit ISR	2.20	Submit ISR	Submit ISR
<b>HP 403621-B21</b>	Submit ISR	Submit ISR	Submit ISR	6.03a11	Submit ISR	Submit ISR
<b>HP 451871-B21</b>	Submit ISR	Submit ISR	Submit ISR	2.15 2.22	Submit ISR	Submit ISR
<b>HP 456972-B21</b>	Submit ISR	Submit ISR	Submit ISR	3.03a9	Submit ISR	Submit ISR

**HDS Modular Arrays SAN Boot Support Matrix**

<b>HP NC551i</b>	Submit ISR	Submit ISR	Submit ISR	4.0.360.15	Submit ISR	Submit ISR
<b>QLogic QLE2560</b>	Submit ISR	Submit ISR	3.00	2.12 2.15 2.20 3.00	Submit ISR	Submit ISR
<b>QLogic QLE2562</b>	Submit ISR	Submit ISR	3.00	2.12 2.15 2.20 3.00	Submit ISR	Submit ISR
<b>QLogic QME2572</b>	Submit ISR	Submit ISR	2.37	2.37	Submit ISR	Submit ISR

**Citrix XENServer (X64) HBA Support**

<b>Citrix XENServer 5.6 (X64)</b>	<b>HUS100</b>		<b>AMS2000/SMS</b>		<b>AMS1000/WMS</b>	
<b>BIOS</b>	<b>Direct</b>	<b>Switch</b>	<b>Direct</b>	<b>Switch</b>	<b>Direct</b>	<b>Switch</b>
<b>Emulex LPe1205-HI</b>	Submit ISR	Submit ISR	Submit ISR	2.02a2	Submit ISR	Submit ISR
<b>IBM 44X1945</b>	Submit ISR	Submit ISR	Submit ISR	2.09	Submit ISR	Submit ISR

<b>Citrix XENServer 6.0 (X64)</b>	<b>HUS100</b>		<b>AMS2000/SMS</b>		<b>AMS1000/WMS</b>	
<b>BIOS</b>	<b>Direct</b>	<b>Switch</b>	<b>Direct</b>	<b>Switch</b>	<b>Direct</b>	<b>Switch</b>
<b>Emulex LPe1205-HI</b>	Submit ISR	Submit ISR	Submit ISR	2.02a2	Submit ISR	Submit ISR