



hp fc/san backup solution compatibility matrix

Version 4.1

Date: November 27, 2008

The tables below show HP OpenView Storage Data Protector 5.5 fully tested recommended and supported HP FC/SAN backup configurations. Please note, this compatibility matrix is not the definitive list of SAN environments supported by Data Protector. The environments listed within this matrix are those that have been fully tested and therefore highly recommended. All media technologies and devices listed as supported with HP-UX, Windows, AIX, Tru64, Linux, Netware, OpenVMS and Solaris within the Data Protector 5.5 Device Support Matrix are supported in a SAN environment. The SAN is transparent to Data Protector.

[Data Protector 5.5 Device Support Matrix](#)

For recommendations on hardware installation, please refer to the SAN Backup Solution Installation Guide at <http://www.hp.com/>. For recommendations on software installation, please refer to the HP OpenView Storage Data Protector Installation and Licensing Guide, included with the software.

The FC/SAN configurations are structured into the following tables:

1. Point-To-Point
2. Switch Fabric
3. Arbitrated-Loop

Note that the HP Surestore 2/20, 4/40, 6/60, 8/80, 10/100, and 6/140 Tape Libraries listed within this document are supported with DLT8000 and HP Ultrium tape drives, while the HP Surestore 10/180 and 20/700 Tape Libraries are supported with DLT7000, DLT8000, HP 9840, and HP Ultrium tape drives. The HP Surestore 10/588 Tape Library is supported with HP 9840 and DLT7000 tape drives. Firmware and device driver version numbers are the minimum requirements for support. In most cases, the most recently released version is recommended.

point-to-point (fc bridge required)				
server	FC HBA	FC interface	tape libraries	remarks
Windows 2000	HP D8602A/B <ul style="list-style-type: none">• Driver v2.06 QLogic QLA-2200F <ul style="list-style-type: none">• Driver v7.05.05 + SNIA Library Patch Emulex LP8000-N1,-F1 <ul style="list-style-type: none">• Driver v4.52a7 + firmware 3.82a1	Internal FC Card <ul style="list-style-type: none">• A5590A (HVDS)• A4687A (LVDS)	Surestore 2/20, 4/40, 6/60, 8/80, 10/100, and 6/140 tape libraries (DLT) <ul style="list-style-type: none">• Firmware 1.33	For best performance, one drive per SCSI bus on library's FC interface card.

Windows 2000	<p>HP D8602A/B</p> <ul style="list-style-type: none"> • Driver v2.06 <p>QLogic QLA-2200F</p> <ul style="list-style-type: none"> • Driver v7.05.05 + SNIA Library Patch <p>Emulex LP8000-N1,-F1</p> <ul style="list-style-type: none"> • Driver v4.52a7 + firmware 3.82a1 	<p>Internal FC Card</p> <ul style="list-style-type: none"> • A4673A (HVDS) • A4674A (LVDS) 	<p>Surestore 2/20, 4/40, 6/60, 8/80, 10/100, and 6/140 tape libraries (LTO)</p> <ul style="list-style-type: none"> • Firmware 1.33 	<p>For best performance, one drive per SCSI bus on library's FC interface card.</p>
Windows 2000	<p>HP D8602A/B</p> <ul style="list-style-type: none"> • Driver v2.06 <p>QLogic QLA-2200F</p> <ul style="list-style-type: none"> • Driver v7.05.05 + SNIA Library Patch <p>Emulex LP8000-N1,-F1</p> <ul style="list-style-type: none"> • Driver v4.52a7 + firmware 3.82a1 	<p>Bridge FC 4/1 HV</p> <ul style="list-style-type: none"> • A4688A • Firmware 2008e <p>Surestore Interface Manager</p> <ul style="list-style-type: none"> • A6356A with A4673A cards 	<p>Surestore 10/180 and 20/700 (DLT & 9840)</p> <ul style="list-style-type: none"> • Firmware 2.00 <p>Surestore 10/588 (DLT & 9840)</p> <ul style="list-style-type: none"> • Firmware 1.9.03 	<p>For best performance, one drive per SCSI bus. High Voltage Diff SCSI devices only.</p>
Windows 2000	<p>HP D8602A/B</p> <ul style="list-style-type: none"> • Driver v2.06 <p>QLogic QLA-2200F</p> <ul style="list-style-type: none"> • Driver v7.05.05 + SNIA Library Patch <p>Emulex LP8000-N1,-F1</p> <ul style="list-style-type: none"> • Driver v4.52a7 + firmware 3.82a1 	<p>Bridge FC 2/1 LV</p> <ul style="list-style-type: none"> • A4689A • Firmware 2008e <p>Surestore Interface Manager</p> <ul style="list-style-type: none"> • A6356A with A4674A cards 	<p>Surestore 10/180 and 20/700 (LTO)</p> <ul style="list-style-type: none"> • Firmware 2.00 	<p>For best performance, one drive per SCSI bus. Low Voltage Diff SCSI devices only.</p>
HP 9000 HP-UX 11.0, 11.i	<p>On HSC-Bus:</p> <ul style="list-style-type: none"> • A3740A (V, N, L classes) • A3636A (T class) • A3404A (K class) • A3591A (R, D classes) • A6685A (K class) • A6684A (R, D classes) <p>On PCI Bus</p> <ul style="list-style-type: none"> • A5158A (SuperDome, V, N, L, A classes) • A6795A (SuperDome, rp8400, V, N, L, A classes) 	<p>FC Bridge 4/2</p> <ul style="list-style-type: none"> • A3308A • A3511A • A3511AZ • Firmware 4010 	<p>Surestore 2/20, 4/40, 6/60, and 6/140 tape libraries (DLT)</p> <ul style="list-style-type: none"> • Firmware 1.14 <p>Surestore 10/180 and 20/700 (DLT & 9840)</p> <ul style="list-style-type: none"> • Firmware 2.00 <p>Surestore 10/588 (DLT & 9840)</p> <ul style="list-style-type: none"> • Firmware 1.9.03 	<p>For best performance, one drive per SCSI bus. High Voltage Diff SCSI devices only.</p>

HP 9000 HP-UX 11.0, 11.i	<p>On HSC-Bus:</p> <ul style="list-style-type: none"> A3740A (V, N, L classes) A3636A (T class) A3404A (K class) A3591A (R, D classes) A6685A (K class) A6684A (R, D classes) <p>On PCI Bus</p> <ul style="list-style-type: none"> A5158A (SuperDome, V, N, L, A classes) A6795A (SuperDome, rp8400, V, N, L, A classes) 	<p>Bridge FC 4/1 HV</p> <ul style="list-style-type: none"> A4688A Firmware 2008e <p>Surestore Interface Manager</p> <ul style="list-style-type: none"> A6356A with A4673A cards 	<p>Surestore 10/180 and 20/700 (DLT & 9840)</p> <ul style="list-style-type: none"> Firmware 2.00 <p>Surestore 10/588 (DLT & 9840)</p> <ul style="list-style-type: none"> Firmware 1.9.03 	<p>For best performance, one drive per SCSI bus. High Voltage Diff SCSI devices only.</p>
HP 9000 HP-UX 11.0, 11.i	<p>On HSC-Bus:</p> <ul style="list-style-type: none"> A3740A (V, N, L classes) A3636A (T class) A3404A (K class) A3591A (R, D classes) A6685A (K class) A6684A (R, D classes) <p>On PCI Bus</p> <ul style="list-style-type: none"> A5158A (SuperDome, V, N, L, A classes) A6795A (SuperDome, rp8400, V, N, L, A classes) 	<p>Bridge FC 2/1 LV</p> <ul style="list-style-type: none"> A4689A Firmware 2008e <p>Surestore Interface Manager</p> <ul style="list-style-type: none"> A6356A with A4674A cards 	<p>Surestore 10/180 and 20/700 (LTO)</p> <ul style="list-style-type: none"> Firmware 2.00 	<p>For best performance, one drive per SCSI bus. Low Voltage Diff SCSI devices only.</p>
HP 9000 HP-UX 11.0, 11.i	<p>On HSC-Bus:</p> <ul style="list-style-type: none"> A3740A (V, N, L classes) A3636A (T class) A3404A (K class) A3591A (R, D classes) A6685A (K class) A6684A (R, D classes) <p>On PCI Bus</p> <ul style="list-style-type: none"> A5158A (SuperDome, V, N, L, A classes) A6795A (SuperDome, rp8400, V, N, L, A classes) 	<p>Internal FC Card</p> <ul style="list-style-type: none"> A5590A (HVDS) A4687A (LVDS) 	<p>Surestore 2/20, 4/40, 6/60, 8/80, 10/100, and 6/140 tape libraries (DLT)</p> <ul style="list-style-type: none"> Firmware 1.33 	<p>For best performance, one drive per SCSI bus on library's FC interface card.</p>

HP 9000 HP-UX 11.0, 11.i	<p>On HSC-Bus:</p> <ul style="list-style-type: none"> A3740A (V, N, L classes) A3636A (T class) A3404A (K class) A3591A (R, D classes) A6685A (K class) A6684A (R, D classes) <p>On PCI Bus</p> <ul style="list-style-type: none"> A5158A (SuperDome, V, N, L, A classes) A6795A (SuperDome, rp8400, V, N, L, A classes) 	<p>Internal FC Card</p> <ul style="list-style-type: none"> A4673A (HVDS) A4674A (LVDS) 	<p>Surestore 2/20, 4/40, 6/60, 8/80, 10/100, and 6/140 tape libraries (LTO)</p> <ul style="list-style-type: none"> Firmware 1.33 	<p>For best performance, one drive per SCSI bus on library's FC interface card.</p>
SUN Solaris 7, 8	<p>SBUS</p> <ul style="list-style-type: none"> JNI FC64-1063-N JNI FCE-1063-N <p>PCI-Bus</p> <ul style="list-style-type: none"> JNI FCI-1063-N JNI FCE-6410-N 	<p>Internal FC Card</p> <ul style="list-style-type: none"> A5590A (HVDS) A4687A (LVDS) 	<p>Surestore 2/20, 4/40, 6/60, 8/80, 10/100, and 6/140 tape libraries (DLT)</p> <ul style="list-style-type: none"> Firmware 1.33 	<ul style="list-style-type: none"> HBA's fca_nport parameter should be set to 0
SUN Solaris 7, 8	<p>SBUS</p> <ul style="list-style-type: none"> JNI FC64-1063-N JNI FCE-1063-N <p>PCI-Bus</p> <ul style="list-style-type: none"> JNI FCI-1063-N JNI FCE-6410-N 	<p>Internal FC Card</p> <ul style="list-style-type: none"> A4673A (HVDS) A4674A (LVDS) 	<p>Surestore 2/20, 4/40, 6/60, 8/80, 10/100, and 6/140 tape libraries (LTO)</p> <ul style="list-style-type: none"> Firmware 1.33 	<ul style="list-style-type: none"> HBA's fca_nport parameter should be set to 0
SUN Solaris 7, 8	<p>SBUS</p> <ul style="list-style-type: none"> JNI FC64-1063-N JNI FCE-1063-N <p>PCI-Bus</p> <ul style="list-style-type: none"> JNI FCI-1063-N JNI FCE-6410-N 	<p>Bridge FC 4/1 HV</p> <ul style="list-style-type: none"> A4688A Firmware 2008e 	<p>Surestore 10/180 and 20/700 (DLT & 9840)</p> <ul style="list-style-type: none"> Firmware 2.00 <p>Surestore Interface Manager</p> <ul style="list-style-type: none"> A6356A with A4673A cards 	<ul style="list-style-type: none"> HBA's fca_nport parameter should be set to 0
SUN Solaris 7, 8	<p>SBUS</p> <ul style="list-style-type: none"> JNI FC64-1063-N JNI FCE-1063-N <p>PCI-Bus</p> <ul style="list-style-type: none"> JNI FCI-1063-N JNI FCE-6410-N 	<p>Bridge FC 2/1 LV</p> <ul style="list-style-type: none"> A4689A Firmware 2008e 	<p>Surestore 10/180 and 20/700 (LTO)</p> <ul style="list-style-type: none"> Firmware 2.00 	<ul style="list-style-type: none"> HBA's fca_nport parameter should be set to 0
Novell Netware 5.x	<p>QLogic QLA-2200F</p> <ul style="list-style-type: none"> Driver v6.50c + firmware 1.74 	<p>Internal FC Card</p> <ul style="list-style-type: none"> A5590A (HVDS) A4687A (LVDS) 	<p>Surestore 2/20, 4/40, 6/60, 8/80, 10/100, and 6/140 tape libraries (DLT)</p> <ul style="list-style-type: none"> Firmware 1.33 	<p>For best performance, one drive per SCSI bus on library's FC interface card.</p>
Novell Netware 5.x	<p>QLogic QLA-2200F</p> <ul style="list-style-type: none"> Driver v6.50c + firmware 1.74 	<p>Internal FC Card</p> <ul style="list-style-type: none"> A4673A (HVDS) A4674A (LVDS) 	<p>Surestore 2/20, 4/40, 6/60, 8/80, 10/100, and 6/140 tape libraries (LTO)</p> <ul style="list-style-type: none"> Firmware 1.33 	<p>For best performance, one drive per SCSI bus on library's FC interface card.</p>

Novell Netware 5.x	QLogic QLA-2200F <ul style="list-style-type: none"> • Driver v6.50c + firmware 1.74 	Bridge FC 4/1 HV <ul style="list-style-type: none"> • A4688A • Firmware 2008e 	Surestore 10/180 and 20/700 (DLT & 9840) <ul style="list-style-type: none"> • Firmware 2.00 	For best performance, one drive per SCSI bus. High Voltage Diff SCSI devices only.
Novell Netware 5.x	QLogic QLA-2200F <ul style="list-style-type: none"> • Driver v6.50c + firmware 1.74 	Surestore Interface Manager <ul style="list-style-type: none"> • A6356A with A4673A cards 	Surestore 10/588 (DLT & 9840) <ul style="list-style-type: none"> • Firmware 1.9.03 	For best performance, one drive per SCSI bus. Low Voltage Diff SCSI devices only.
Novell Netware 5.x	QLogic QLA-2200F <ul style="list-style-type: none"> • Driver v6.50c + firmware 1.74 	Bridge FC 2/1 LV <ul style="list-style-type: none"> • A4689A • Firmware 2008e 	Surestore 10/180 and 20/700 (LTO) <ul style="list-style-type: none"> • Firmware 2.00 	For best performance, one drive per SCSI bus. Low Voltage Diff SCSI devices only.
		Surestore Interface Manager <ul style="list-style-type: none"> • A6356A with A4674A cards 		

SAN switch supported configurations

FC switch	server	FC HBA	FC interface	tape libraries	switch mode
HP/Brocade 2400 <ul style="list-style-type: none"> • A5625A • A5667A • Firmware 2.1.3 	Windows 2000	HP D8602A/B <ul style="list-style-type: none"> • Driver v2.06 	Internal FC Card <ul style="list-style-type: none"> • A5590A (HVDS) • A4687A (LVDS) 	Surestore 2/20, 4/40, 6/60, 8/80, 10/100, and 6/140 tape libraries (DLT) <ul style="list-style-type: none"> • Firmware 1.33 	<ul style="list-style-type: none"> • Fabric (no QuickLoop) • For D8602A/B, set "InitAsNport=1" parameter in Registry
HP/Brocade 2800 <ul style="list-style-type: none"> • A5624A • Firmware 2.1.3 		QLogic QLA-2200F <ul style="list-style-type: none"> • Driver v7.05.05 + SNIA Library Patch 			
HP FC-64 Director <ul style="list-style-type: none"> • A6534A/AZ • Firmware 1.1.2 					
HP 6164 <ul style="list-style-type: none"> • A7326A • Firmware 2.4.1 		Emulex LP8000-N1,-F1 <ul style="list-style-type: none"> • Driver v4.52a7 + firmware 3.82a1 			
HP switch 8/16B <ul style="list-style-type: none"> • A7346A/AZ • A7347A/AZ • A7340A/AZ • Firmware 3.01 					
HP/Brocade 2400 <ul style="list-style-type: none"> • A5625A • A5667A • Firmware 2.1.3 	Windows 2000	HP D8602A/B <ul style="list-style-type: none"> • Driver v2.06 	Internal FC Card <ul style="list-style-type: none"> • A4673A (HVDS) • A4674A (LVDS) 	Surestore 2/20, 4/40, 6/60, 8/80, 10/100, and 6/140 tape libraries (LTO) <ul style="list-style-type: none"> • Firmware 1.33 	<ul style="list-style-type: none"> • Fabric (no QuickLoop) • For D8602A/B, set "InitAsNport=1" parameter in Registry
HP/Brocade 2800 <ul style="list-style-type: none"> • A5624A • Firmware 2.1.3 		QLogic QLA-2200F <ul style="list-style-type: none"> • Driver v7.05.05 + SNIA Library Patch 			
HP FC-64 Director <ul style="list-style-type: none"> • A6534A/AZ • Firmware 1.1.2 					
HP 6164 <ul style="list-style-type: none"> • A7326A • Firmware 2.4.1 		Emulex LP8000-N1,-F1 <ul style="list-style-type: none"> • Driver v4.52a7 + firmware 3.82a1 			
HP switch 8/16B <ul style="list-style-type: none"> • A7346A/AZ • A7347A/AZ • A7340A/AZ • Firmware 3.01 					

HP/Brocade 2400 <ul style="list-style-type: none"> • A5625A • A5667A • Firmware 2.1.3 	Windows 2000	HP D8602A/B <ul style="list-style-type: none"> • Driver v2.06 	Bridge FC 4/1 HV <ul style="list-style-type: none"> • A4688A • Firmware 2008e 	Surestore 10/180 and 20/700 (DLT & 9840) <ul style="list-style-type: none"> • Firmware 2.00 	<ul style="list-style-type: none"> • Fabric (no QuickLoop) • For D8602A/B, set "InitAsNport=1" parameter in Registry
HP/Brocade 2800 <ul style="list-style-type: none"> • A5624A • Firmware 2.1.3 		QLogic QLA-2200F <ul style="list-style-type: none"> • Driver v7.05.05 + SNIA Library Patch 	Surestore Interface Manager <ul style="list-style-type: none"> • A6356A with A4673A cards 	Surestore 10/588 (DLT & 9840) <ul style="list-style-type: none"> • Firmware 1.9.03 	
HP FC-64 Director <ul style="list-style-type: none"> • A6534A/AZ • Firmware 1.1.2 					
HP 6164 <ul style="list-style-type: none"> • A7326A • Firmware 2.4.1 		Emulex LP8000-N1,-F1 <ul style="list-style-type: none"> • Driver v4.52a7 + firmware 3.82a1 			
HP switch 8/16B <ul style="list-style-type: none"> • A7346A/AZ • A7347A/AZ • A7340A/AZ • Firmware 3.01 					
HP/Brocade 2400 <ul style="list-style-type: none"> • A5625A • A5667A • Firmware 2.1.3 	Windows 2000	HP D8602A/B <ul style="list-style-type: none"> • Driver v2.06 	Bridge FC 2/1 LV <ul style="list-style-type: none"> • A4689A • Firmware 2008e 	Surestore 10/180 and 20/700 (LTO) <ul style="list-style-type: none"> • Firmware 2.00 	<ul style="list-style-type: none"> • Fabric (no QuickLoop) • For D8602A/B, set "InitAsNport=1" parameter in Registry
HP/Brocade 2800 <ul style="list-style-type: none"> • A5624A • Firmware 2.1.3 		QLogic QLA-2200F <ul style="list-style-type: none"> • Driver v7.05.05 + SNIA Library Patch 	Surestore Interface Manager <ul style="list-style-type: none"> • A6356A with A4674A cards 		
HP FC-64 Director <ul style="list-style-type: none"> • A6534A/AZ • Firmware 1.1.2 					
HP 6164 <ul style="list-style-type: none"> • A7326A • Firmware 2.4.1 		Emulex LP8000-N1,-F1 <ul style="list-style-type: none"> • Driver v4.52a7 + firmware 3.82a1 			
HP switch 8/16B <ul style="list-style-type: none"> • A7346A/AZ • A7347A/AZ • A7340A/AZ • Firmware 3.01 					

<p>HP/Brocade 2400</p> <ul style="list-style-type: none"> • A5625A • A5667A • Firmware 2.1.3 	<p>HP 9000 HP-UX 11.0 (32-bit)</p>	<ul style="list-style-type: none"> • A3740A (V, N, L classes) • A3636A (T class) • A3591A (R, D classes) • A3404A (K class) 	<p>Not Currently Supported - Plans TBD</p>	<p>Not Currently Supported - Plans TBD</p>	<p>Not Currently Supported - Plans TBD</p>
<p>HP/Brocade 2800</p> <ul style="list-style-type: none"> • A5624A • Firmware 2.1.3 					
<p>HP FC-64 Director</p> <ul style="list-style-type: none"> • A6534A/AZ • Firmware 1.1.2 					
<p>HP 6164</p> <ul style="list-style-type: none"> • A7326A • Firmware 2.4.1 					
<p>HP switch 8/16B</p> <ul style="list-style-type: none"> • A7346A/AZ • A7347A/AZ • A7340A/AZ • Firmware 3.01 					
<p>HP/Brocade 2400</p> <ul style="list-style-type: none"> • A5625A • A5667A • Firmware 2.1.3 	<p>HP 9000 HP-UX 11.0 & 11.i (64-bit)</p>	<ul style="list-style-type: none"> • A3740A (V, N, L classes) • A3636A (T class) • A3591A (R, D classes) • A3404A (K class) 	<p>Not Currently Supported - Plans TBD</p>	<p>Not Currently Supported - Plans TBD</p>	<p>Not Currently Supported - Plans TBD</p>
<p>HP/Brocade 2800</p> <ul style="list-style-type: none"> • A5624A • Firmware 2.1.3 					
<p>HP FC-64 Director</p> <ul style="list-style-type: none"> • A6534A/AZ • Firmware 1.1.2 					
<p>HP 6164</p> <ul style="list-style-type: none"> • A7326A • Firmware 2.4.1 					
<p>HP switch 8/16B</p> <ul style="list-style-type: none"> • A7346A/AZ • A7347A/AZ • A7340A/AZ • Firmware 3.01 					

<p>HP/Brocade 2400</p> <ul style="list-style-type: none"> • A5625A • A5667A • Firmware 2.1.3 <p>HP/Brocade 2800</p> <ul style="list-style-type: none"> • A5624A • Firmware 2.1.3 <p>HP FC-64 Director</p> <ul style="list-style-type: none"> • A6534A/AZ • Firmware 1.1.2 <p>HP 6164</p> <ul style="list-style-type: none"> • A7326A • Firmware 2.4.1 <p>HP switch 8/16B</p> <ul style="list-style-type: none"> • A7346A/AZ • A7347A/AZ • A7340A/AZ • Firmware 3.01 	<p>HP 9000 HP-UX 11.0 & 11.i</p>	<p>On HSC-Bus:</p> <ul style="list-style-type: none"> • A6685A (K class) • A6684A (R, D classes) <p>On PCI Bus</p> <ul style="list-style-type: none"> • A5158A (SuperDome, rp8400, V, N, L, A classes) • A6795A (SuperDome, rp8400, V, N, L, A classes) 	<p>FC Bridge 4/2</p> <ul style="list-style-type: none"> • A3308A • A3511A • A3511AZ • Firmware 4010 	<p>Surestore 2/20, 4/40, 6/60, 8/80, 10/100, and 6/140 tape libraries (DLT)</p> <ul style="list-style-type: none"> • Firmware 1.33 Surestore 10/180 and 20/700 (DLT & 9840) • Firmware 2.00 Surestore 10/588 (DLT & 9840) • Firmware 1.9.03 	<ul style="list-style-type: none"> • Fabric (no QuickLoop) • See Note 1
<p>HP/Brocade 2400</p> <ul style="list-style-type: none"> • A5625A • A5667A • Firmware 2.1.3 <p>HP/Brocade 2800</p> <ul style="list-style-type: none"> • A5624A • Firmware 2.1.3 <p>HP FC-64 Director</p> <ul style="list-style-type: none"> • A6534A/AZ • Firmware 1.1.2 <p>HP 6164</p> <ul style="list-style-type: none"> • A7326A • Firmware 2.4.1 <p>HP switch 8/16B</p> <ul style="list-style-type: none"> • A7346A/AZ • A7347A/AZ • A7340A/AZ • Firmware 3.01 	<p>HP 9000 HP-UX 11.0 & 11.i</p>	<p>On HSC-Bus:</p> <ul style="list-style-type: none"> • A6685A (K class) • A6684A (R, D classes) <p>On PCI Bus</p> <ul style="list-style-type: none"> • A5158A (SuperDome, rp8400, V, N, L, A classes) • A6795A (SuperDome, rp8400, V, N, L, A classes) 	<p>Bridge FC 4/1 HV</p> <ul style="list-style-type: none"> • A4688A • Firmware 2008e <p>Surestore Interface Manager</p> <ul style="list-style-type: none"> • A6356A with A4673A cards 	<p>Surestore 10/180 and 20/700 (DLT & 9840)</p> <ul style="list-style-type: none"> • Firmware 2.00 Surestore 10/588 (DLT & 9840) • Firmware 1.9.03 	<ul style="list-style-type: none"> • Fabric (no QuickLoop) • See Note 1

<p>HP/Brocade 2400</p> <ul style="list-style-type: none"> • A5625A • A5667A • Firmware 2.1.3 <p>HP/Brocade 2800</p> <ul style="list-style-type: none"> • A5624A • Firmware 2.1.3 <p>HP FC-64 Director</p> <ul style="list-style-type: none"> • A6534A/AZ • Firmware 1.1.2 <p>HP 6164</p> <ul style="list-style-type: none"> • A7326A • Firmware 2.4.1 <p>HP switch 8/16B</p> <ul style="list-style-type: none"> • A7346A/AZ • A7347A/AZ • A7340A/AZ • Firmware 3.01 	<p>HP 9000 HP-UX 11.0 & 11.i</p>	<p>On HSC-Bus:</p> <ul style="list-style-type: none"> • A6685A (K class) • A6684A (R, D classes) <p>On PCI Bus</p> <ul style="list-style-type: none"> • A5158A (SuperDome, rp8400, V, N, L, A classes) • A6795A (SuperDome, rp8400, V, N, L, A classes) 	<p>Bridge FC 2/1 LV</p> <ul style="list-style-type: none"> • A4689A • Firmware 2008e <p>Surestore Interface Manager</p> <ul style="list-style-type: none"> • A6356A with A4674A cards 	<p>Surestore 10/180 and 20/700 (LTO)</p> <ul style="list-style-type: none"> • Firmware 2.00 	<ul style="list-style-type: none"> • Fabric (no QuickLoop) • See Note 1
<p>HP/Brocade 2400</p> <ul style="list-style-type: none"> • A5625A • A5667A • Firmware 2.1.3 <p>HP/Brocade 2800</p> <ul style="list-style-type: none"> • A5624A • Firmware 2.1.3 <p>HP FC-64 Director</p> <ul style="list-style-type: none"> • A6534A/AZ • Firmware 1.1.2 <p>HP 6164</p> <ul style="list-style-type: none"> • A7326A • Firmware 2.4.1 <p>HP switch 8/16B</p> <ul style="list-style-type: none"> • A7346A/AZ • A7347A/AZ • A7340A/AZ • Firmware 3.01 	<p>HP 9000 HP-UX 11.0 & 11.i</p>	<p>On HSC-Bus:</p> <ul style="list-style-type: none"> • A6685A (K class) • A6684A (R, D classes) <p>On PCI Bus</p> <ul style="list-style-type: none"> • A5158A (SuperDome, rp8400, V, N, L, A classes) • A6795A (SuperDome, rp8400, V, N, L, A classes) 	<p>Internal FC Card</p> <ul style="list-style-type: none"> • A5590A (HVDS) • A4687A (LVDS) 	<p>Surestore 2/20, 4/40, 6/60, /80, 10/100, and 6/140 tape libraries (DLT)</p> <ul style="list-style-type: none"> • Firmware 1.33 	<ul style="list-style-type: none"> • Fabric (no QuickLoop) • See Note 1

HP/Brocade 2400 <ul style="list-style-type: none"> • A5625A • A5667A • Firmware 2.1.3 	HP 9000 HP-UX 11.0 & 11.i	On HSC-Bus: <ul style="list-style-type: none"> • A6685A (K class) • A6684A (R, D classes) 	Internal FC Card <ul style="list-style-type: none"> • A4673A (HVDS) • A4674A (LVDS) 	Surestore 2/20, 4/40, 6/60, 8/80, 10/100, and 6/140 tape libraries (LTO) <ul style="list-style-type: none"> • Firmware 1.33 	<ul style="list-style-type: none"> • Fabric (no QuickLoop) • See Note 1
HP/Brocade 2800 <ul style="list-style-type: none"> • A5624A • Firmware 2.1.3 		On PCI Bus <ul style="list-style-type: none"> • A5158A (SuperDome, rp8400, V, N, L, A classes) • A6795A (SuperDome, rp8400, V, N, L, A classes) 			
HP FC-64 Director <ul style="list-style-type: none"> • A6534A/AZ • Firmware 1.1.2 					
HP 6164 <ul style="list-style-type: none"> • A7326A • Firmware 2.4.1 					
HP switch 8/16B <ul style="list-style-type: none"> • A7346A/AZ • A7347A/AZ • A7340A/AZ • Firmware 3.01 					
HP/Brocade 2400 <ul style="list-style-type: none"> • A5625A • A5667A • Firmware 2.1.3 	SUN Solaris 7 32 bit	SBUS <ul style="list-style-type: none"> • JNI FC64-1063 	Internal FC Card <ul style="list-style-type: none"> • A5590A (HVDS) • A4687A (LVDS) 	Surestore 2/20, 4/40, 6/60, 8/80, 10/100, and 6/140 tape libraries (DLT) <ul style="list-style-type: none"> • Firmware 1.33 	<ul style="list-style-type: none"> • Fabric (no QuickLoop) • HBA's fca_nport parameter should be set to 1
HP/Brocade 2800 <ul style="list-style-type: none"> • A5624A • Firmware 2.1.3 		PCI-Bus <ul style="list-style-type: none"> • JNI FC-1063 			
HP FC-64 Director <ul style="list-style-type: none"> • A6534A/AZ • Firmware 1.1.2 					
HP 6164 <ul style="list-style-type: none"> • A7326A • Firmware 2.4.1 					
HP switch 8/16B <ul style="list-style-type: none"> • A7346A/AZ • A7347A/AZ • A7340A/AZ • Firmware 3.01 					

HP/Brocade 2400 <ul style="list-style-type: none"> • A5625A • A5667A • Firmware 2.1.3 	SUN Solaris 7 32 bit	SBUS <ul style="list-style-type: none"> • JNI FC64-1063 PCI-Bus <ul style="list-style-type: none"> • JNI FC-1063 	Internal FC Card <ul style="list-style-type: none"> • A4673A (HVDS) • A4674A (LVDS) 	Surestore 2/20, 4/40, 6/60, 8/80, 10/100, and 6/140 tape libraries (LTO) <ul style="list-style-type: none"> • Firmware 1.33 	<ul style="list-style-type: none"> • Fabric (no QuickLoop) • HBA's fca_nport parameter should be set to 1
HP/Brocade 2800 <ul style="list-style-type: none"> • A5624A • Firmware 2.1.3 					
HP FC-64 Director <ul style="list-style-type: none"> • A6534A/AZ • Firmware 1.1.2 					
HP 6164 <ul style="list-style-type: none"> • A7326A • Firmware 2.4.1 					
HP switch 8/16B <ul style="list-style-type: none"> • A7346A/AZ • A7347A/AZ • A7340A/AZ • Firmware 3.01 					
HP/Brocade 2400 <ul style="list-style-type: none"> • A5625A • A5667A • Firmware 2.1.3 	SUN Solaris 7 32 bit	SBUS <ul style="list-style-type: none"> • JNI FC64-1063 PCI-Bus <ul style="list-style-type: none"> • JNI FC-1063 	Bridge FC 4/1 HV <ul style="list-style-type: none"> • A4688A • Firmware 2008e 	Surestore 10/180 and 20/700 (DLT & 9840) <ul style="list-style-type: none"> • Firmware 2.00 Surestore 10/588 (DLT & 9840) <ul style="list-style-type: none"> • Firmware 1.9.03 	<ul style="list-style-type: none"> • Fabric (no QuickLoop) • HBA's fca_nport parameter should be set to 1
HP/Brocade 2800 <ul style="list-style-type: none"> • A5624A • Firmware 2.1.3 			Surestore Interface Manager <ul style="list-style-type: none"> • A6356A with A4673A cards 		
HP FC-64 Director <ul style="list-style-type: none"> • A6534A/AZ • Firmware 1.1.2 					
HP 6164 <ul style="list-style-type: none"> • A7326A • Firmware 2.4.1 					
HP switch 8/16B <ul style="list-style-type: none"> • A7346A/AZ • A7347A/AZ • A7340A/AZ • Firmware 3.01 					

<p>HP/Brocade 2400</p> <ul style="list-style-type: none"> • A5625A • A5667A • Firmware 2.1.3 <p>HP/Brocade 2800</p> <ul style="list-style-type: none"> • A5624A • Firmware 2.1.3 <p>HP FC-64 Director</p> <ul style="list-style-type: none"> • A6534A/AZ • Firmware 1.1.2 <p>HP 6164</p> <ul style="list-style-type: none"> • A7326A • Firmware 2.4.1 <p>HP switch 8/16B</p> <ul style="list-style-type: none"> • A7346A/AZ • A7347A/AZ • A7340A/AZ • Firmware 3.01 	<p>SUN Solaris 7</p> <p>32 bit</p>	<p>SBUS</p> <ul style="list-style-type: none"> • JNI FC64-1063 <p>PCI-Bus</p> <ul style="list-style-type: none"> • JNI FC-1063 	<p>Bridge FC 2/1 LV</p> <ul style="list-style-type: none"> • A4689A • Firmware 2008e <p>Surestore Interface Manager</p> <ul style="list-style-type: none"> • A6356A with A4674A cards 	<p>Surestore 10/180 and 20/700 (LTO)</p> <ul style="list-style-type: none"> • Firmware 2.00 	<ul style="list-style-type: none"> • Fabric (no QuickLoop) • HBA's fca_nport parameter should be set to 1
<p>HP/Brocade 2400</p> <ul style="list-style-type: none"> • A5625A • A5667A • Firmware 2.1.3 <p>HP/Brocade 2800</p> <ul style="list-style-type: none"> • A5624A • Firmware 2.1.3 <p>HP 6164</p> <ul style="list-style-type: none"> • A7326A • Firmware 2.4.1 <p>HP switch 8/16B</p> <ul style="list-style-type: none"> • A7346A/AZ • A7347A/AZ • A7340A/AZ • Firmware 3.01 	<p>Novell Netware 5.x</p>	<p>QLogic QLA-2200F</p> <ul style="list-style-type: none"> • Driver v6.50c + firmware 1.74 	<p>Internal FC Card</p> <ul style="list-style-type: none"> • A5590A (HVDS) • A4687A (LVDS) 	<p>Surestore 2/20, 4/40, 6/60, 8/80, 10/100, and 6/140 tape libraries (DLT)</p> <ul style="list-style-type: none"> • Firmware 1.33 	<ul style="list-style-type: none"> • Fabric (no QuickLoop)
<p>HP/Brocade 2400</p> <ul style="list-style-type: none"> • A5625A • A5667A • Firmware 2.1.3 <p>HP/Brocade 2800</p> <ul style="list-style-type: none"> • A5624A • Firmware 2.1.3 <p>HP 6164</p> <ul style="list-style-type: none"> • A7326A • Firmware 2.4.1 <p>HP switch 8/16B</p> <ul style="list-style-type: none"> • A7346A/AZ • A7347A/AZ • A7340A/AZ • Firmware 3.01 	<p>Novell Netware 5.x</p>	<p>QLogic QLA-2200F</p> <ul style="list-style-type: none"> • Driver v6.50c + firmware 1.74 	<p>Internal FC Card</p> <ul style="list-style-type: none"> • A4673A (HVDS) • A4674A (LVDS) 	<p>Surestore 2/20, 4/40, 6/60, 8/80, 10/100, and 6/140 tape libraries (LTO)</p> <ul style="list-style-type: none"> • Firmware 1.33 	<ul style="list-style-type: none"> • Fabric (no QuickLoop)

HP/Brocade 2400 <ul style="list-style-type: none"> • A5625A • A5667A • Firmware 2.1.3 	Novell Netware 5.x	QLogic QLA-2200F <ul style="list-style-type: none"> • Driver v6.50c + firmware 1.74 	Bridge FC 4/1 HV <ul style="list-style-type: none"> • A4688A • Firmware 2008e 	Surestore 10/180 and 20/700 (DLT & 9840) <ul style="list-style-type: none"> • Firmware 2.00 Surestore 10/588 (DLT & 9840) <ul style="list-style-type: none"> • Firmware 1.9.03 	<ul style="list-style-type: none"> • Fabric (no Quickloop)
HP/Brocade 2800 <ul style="list-style-type: none"> • A5624A • Firmware 2.1.3 			Surestore Interface Manager <ul style="list-style-type: none"> • A6356A with A4673A cards 		
HP 6164 <ul style="list-style-type: none"> • A7326A • Firmware 2.4.1 					
HP switch 8/16B <ul style="list-style-type: none"> • A7346A/AZ • A7347A/AZ • A7340A/AZ • Firmware 3.01 					
HP/Brocade 2400 <ul style="list-style-type: none"> • A5625A • A5667A • Firmware 2.1.3 	Novell Netware 5.x	QLogic QLA-2200F <ul style="list-style-type: none"> • Driver v6.50c + firmware 1.74 	Bridge FC 2/1 LV <ul style="list-style-type: none"> • A4689A • Firmware 2008e 	Surestore 10/180 and 20/700 (LTO) <ul style="list-style-type: none"> • Firmware 2.00 	<ul style="list-style-type: none"> • Fabric (no Quickloop)
HP/Brocade 2800 <ul style="list-style-type: none"> • A5624A • Firmware 2.1.3 			Surestore Interface Manager <ul style="list-style-type: none"> • A6356A with A4674A cards 		
HP 6164 <ul style="list-style-type: none"> • A7326A • Firmware 2.4.1 					
HP switch 8/16B <ul style="list-style-type: none"> • A7346A/AZ • A7347A/AZ • A7340A/AZ • Firmware 3.01 					
Brocade 2800 <ul style="list-style-type: none"> • Firmware 2.6.0C 	OpenVMS V7.3-1	DS-KGPSA-EA <ul style="list-style-type: none"> • Driver VMS 731_update-V0100 	Compaq MDR <ul style="list-style-type: none"> • Firmware 1180 	Compaq TL891 (DLT8000) <ul style="list-style-type: none"> • Firmware 05.19 	<ul style="list-style-type: none"> • Fabric

Note 1 – HP-UX minimum fabric driver requirements and dependencies

Platform	FC HBA	driver release (version)	FCMS driver dependency patch
HP-UX 11.0 (64 bit only)	A5158A	AP0900 (B.11.00.04)	PHKL_23939
HP-UX 11.0 (64 bit only)	A6795A	AR1201 (B.11.00.10)	PHKL_23939
HP-UX 11.0 (32/64 bit)	A6684A	Web only (B.11.00.09)	PHKL_23939
HP-UX 11.0 (32/64 bit)	A6685A	Web only (B.11.00.09)	PHKL_23939
HP-UX 11.i (64 bit only)	A5158A	AP0301 (B.11.11.04)	PHKL_23626
HP-UX 11.i (64 bit only)	A6795A	AR1201 (B.11.11.09)	PHKL_23626
HP-UX 11.i (64 bit only)	A6684A	Web only (B.11.11.07)	PHKL_23626
HP-UX 11.i (64 bit only)	A6685A	Web only (B.11.11.07)	PHKL_23626

For driver released presented, it is important that the dependency patch for the FCMS driver is installed PRIOR to installing the Application Release with the fabric driver.

SAN hub supported configuration					
server/OS	FC HBA	FC hub	loop mode	FC interface	tape libraries
HP 9000 HP-UX 11.0	HP HBA A3740A A3636A A3404A A3591B A5158A	Short Wave (10 SW Ports) • A3724A • A3724AZ Long Wave (9 SW Ports, 1 LW Port) • A4839A • A4839AZ	Arbitrated-Loop (Note: Only a single server per loop is supported)	FC Bridge 4/2 • A3308A • A3511A • A3511AZ • Firmware 4010	Surestore 2/20 Surestore 4/40 Surestore 6/60 Surestore 6/140 • Firmware 1.14 Surestore 10/180 Surestore 20/700 • Firmware 2.00
HP 9000 HP-UX 11.0	HP HBA A3740A A3636A A3404A A3591B A5158A	Short Wave (10 SW Ports) • A3724A • A3724AZ Long Wave (9 SW Ports, 1 LW Port) • A4839A • A4839AZ	Arbitrated-Loop (Note: Only a single server per loop is supported)	Internal FC Card • A5590A (HVDS) • A4687A (LVDS)	Surestore 2/20 Surestore 4/40 Surestore 6/60 Surestore 6/140 • Firmware 1.14