



HP Cluster Configuration Support Matrix for StorageWorks Disk Array XP12000

Config	Supported Servers*	Host Bus Adapters (HBAs)**	Multi Path Software	Storage Information	Interconnects (Switches)	Other
#1 Windows Server 2000 & 2003, EE	<p>WS03 supported nodes = 2-8 W2K, SP4 supported nodes = 2</p> <p>ProLiant</p> <ul style="list-style-type: none"> • BL20p G2^ • BL20p G3^^^ • BL40p • BL30p^^ • BL35p^^ • BL25p^^^^ • BL45p^^^^ • DL360 G4, DL360 G5 • DL360 G4p • DL365 • DL380 G4, DL380 G5 • DL580 G3, DL580 G4, DL580 G5 • DL585, DL585 G2 • DL385, DL385 G2 • ML370 G4, ML370 G5 • ML530, ML530 G2 • ML570 G3, ML570 G4 • BL460c • BL480c • BL465c • BL680c • BL685c <p>*Note: Servers can be used homogeneously or heterogeneously within a cluster.</p> <p>Maximum supported nodes for BL30p in a SCSIport config = 2</p> <p>^Note: Supports the FC Mezzanine card only.</p> <p>^^Note: Supports the FC Balcony card only.</p> <p>^^^Note: Supports the FC Adapter Card BL20p G3</p> <p>^^^^Note: Supports the HPBALCF 105</p> <p>Server Software: SmartStart Ver: 8.00</p>	<p>HBA Family 1 SCSIport Driver: 9.1.3.11 BIOS: 1.26 (1.64)</p> <p>StorPort Driver: 9.1.3.18 BIOS: 1.26 (1.64)</p> <p>•QMh2462</p> <p>HBA Family 2 SCSIport Driver: 5-5.30a2 FW: 2.72a2 BIOS: 3.00a4 (6.00a2)</p> <p>StorPort Driver: 5-2.00a12 FW: 2.72a2 BIOS: 3.00a4 (6.00a2)</p> <p>•LPe1105</p> <p>HBA Family 3 SCSIport Driver: 9.1.3.11 BIOS: 2.02 (1.73af)</p> <p>StorPort Driver: 9.1.7.17 BIOS: 2.02 (1.73af)</p> <p>•FC1143 •FC1243</p> <p>HBA Family 4 SCSIport Driver: 5-5.30a2 FW: 2.72a2 BIOS: 2.01a2 (5.03a0)</p> <p>StorPort Driver: 5-2.01a4 FW: 2.72a2 BIOS: 2.01a2 (5.03a0)</p> <p>•FC2143 •FC2243</p> <p>HBA Family 5 SCSIport Driver: 9.1.3.11 BIOS: 2.02 (1.73af)</p> <p>StorPort Driver: 9.1.7.17 BIOS: 2.02 (1.73af)</p> <p>•FC1142SR •FC1242SR</p> <p>HBA Family 6 SCSIport Driver: 5-5.30a2 FW: 2.72a2 BIOS: 2.01a2 (5.03a0)</p> <p>StorPort Driver: 5-2.01a4 FW: 2.72a2 BIOS: 2.01a2 (5.03a0)</p> <p>•FC2142SR •FC2242SR</p> <p>HBA Family 7 SCSIport Driver: 5-5.30a2 FW: 1.91a5 BIOS: 2.01a2 (5.03a0)</p> <p>StorPort Driver: 5-2.01a4 FW: 1.91a5 BIOS: 2.01a2 (5.03a0)</p> <p>•FCA2404 •FCA2404DC</p>	<p>HP FF MPIO DSM for XP Ver: 3.00.00</p> <p>Secure Path Ver: 4.0c SP3</p>	<p>HP StorageWorks Disk Array XP12000 Controller Firmware: 50.09.74.00/00 Minimum Controller Firmware: 50-07-69-00/00</p> <p>HP StorageWorks Cluster Extension XP version 2.08.01^</p> <p>*Note: Cluster Extension XP no longer supported on Windows 2000.</p>	<p>B-Series StorageWorks SAN Switches (8/16 ports 2Gb) FW: 3.2.1c •MSA SAN Switch 2/8 •SAN Switch 2/16</p> <p>StorageWorks SAN Switches (2Gb) FW: 5.3.1a •SAN Switch 2/8V •SAN Switch 2/16V •SAN Switch 2/16N FF</p> <p>StorageWorks SAN Switches (>32 ports) FW: 5.3.1a •SAN Switch 2/32 •SAN Director 2/128</p> <p>StorageWorks SAN Switches (>32 ports) FW: 5.0.5f •Core Switch 2/64</p> <p>StorageWorks SAN Switches (4Gb) FW: 6.1.0c •SAN Switch 4/8 •SAN Switch 4/16 •SAN Switch 4/32 •SAN Switch 4/32B •SAN Director 4/64 •SAN Director 4/256</p> <p>M-Series StorageWorks Director and Edge Switches FW: 09.06.02 •Director 2/64 •Director 2/140 •Edge Switch 2/12 •Edge Switch 2/16 •Edge Switch 2/24 •Edge Switch 2/32</p> <p>C-Series Cisco Switches FW: 3.3(1a) •MDS 9120 •MDS 9140 •MDS 9216 •MDS 9506 •MDS 9509 •MDS 9513</p> <p>*Note: BL30p, BL35p servers not supported with M-Series director class switches.</p>	<p>For additional information on StorPort drivers, we recommend a search of Microsoft's website for the latest StorPort QFE.</p>

Config	Supported Servers*	Host Bus Adapters (HBAs)**	Multi Path Software	Storage Information	Interconnects (Switches)	Other
		<p>HBA Family 8 SCSIport Driver: 5-5.30a2 FW: 1.91a5 BIOS: 1.71a0 (5.02a1)</p> <p>StorPort Driver: 5-2.00a12 FW: 1.91a5 BIOS: 1.71a0 (5.02a1)</p> <ul style="list-style-type: none"> •A7387A •A7388A <p>HBA Family 9 SCSI mini-port Driver: 5-5.30a2 FW: 3.93a0 BIOS: 1.70a3</p> <p>StorPort Driver: 5-2.00a12 FW: 3.93a0 BIOS: 1.70a3</p> <ul style="list-style-type: none"> •FCA2101 •FCA2355 <p>HBA Family 10 SCSI mini-port Driver: 9.1.3.11 BIOS: 1.45</p> <p>StorPort Driver: 9.1.3.18 BIOS: 1.45</p> <ul style="list-style-type: none"> •FCA2214 •FCA2214DC •FC Mezz card <p>HBA Family 11 SCSI mini-port Driver: 9.1.3.11 BIOS: 1.48</p> <p>StorPort Driver: 9.1.3.18 BIOS: 1.48</p> <ul style="list-style-type: none"> •FC Balcony card <p>*Note 1: HBAs must be used homogeneously within a cluster; but can be mixed if they are from the same HBA family as identified above.</p> <p>*Note 2: Refer to Server QuickSpecs for confirmation on supported HBAs</p> <p>*Note 3: StorPort Driver only supported on Windows Server 2003 Operating Systems.</p>				<p>July 2008</p>

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#1 Windows Server 2000 & 2003, EE	<p>WS03 supported nodes = 2-8 W2K, SP4 supported nodes = 2</p> <p>ProLiant</p> <ul style="list-style-type: none"> • BL20p G2^ • BL20p G3^^ • BL40p • BL30p^^ • BL35p^^ • BL25p^^^^ • BL45p^^^^ • DL360 G4, DL360 G5 • DL360 G4p • DL365 • DL380 G4, DL380 G5 • DL580 G3, DL580 G4, DL580 G5 • DL585, DL585 G2 • DL385, DL385 G2 • ML370 G4, ML370 G5 • ML530, ML530 G2 • ML570 G3, ML570 G4 • BL460c • BL480c • BL465c • BL680c • BL685c <p>*Note: Servers can be used homogeneously or heterogeneously within a cluster.</p> <p>Maximum supported nodes for BL30p in a SCSIport config = 2</p> <p>^Note: Supports the FC Mezzanine card only.</p> <p>^^Note: Supports the FC Balcony card only.</p> <p>^^^Note: Supports the FC Adapter Card BL20p G3</p> <p>^^^^Note: Supports the HPBALCF 105</p> <p>Server Software: SmartStart Ver: 8.00</p>	<p>HBA Family 1 SCSIport Driver: 9.1.3.11 BIOS: 1.26 (1.64)</p> <p>StorPort Driver: 9.1.3.18 BIOS: 1.26 (1.64)</p> <p>•QMH2462</p> <p>HBA Family 2 SCSIport Driver: 5-5.30a2 FW: 2.72a2 BIOS: 3.00a4 (6.00a2)</p> <p>StorPort Driver: 5-2.00a12 FW: 2.72a2 BIOS: 3.00a4 (6.00a2)</p> <p>•LPe1105</p> <p>HBA Family 3 SCSIport Driver: 9.1.3.11 BIOS: 1.26 (1.64)</p> <p>StorPort Driver: 9.1.3.18 BIOS: 1.26 (1.64)</p> <p>•FC1143 •FC1243</p> <p>HBA Family 4 SCSIport Driver: 5-5.30a2 FW: 2.72a2 BIOS: 1.71a0 (5.02a1)</p> <p>StorPort Driver: 5-2.00a12 FW: 2.72a2 BIOS: 1.71a0 (5.02a1)</p> <p>•FC2143 •FC2243</p> <p>HBA Family 5 SCSIport Driver: 9.1.3.11 BIOS: 1.26 (1.64)</p> <p>StorPort Driver: 9.1.3.18 BIOS: 1.26 (1.64)</p> <p>•FC1142SR •FC1242SR</p> <p>HBA Family 6 SCSIport Driver: 5-5.30a2 FW: 2.72a2 BIOS: 1.71a0 (5.02a1)</p> <p>StorPort Driver: 5-2.00a12 FW: 2.72a2 BIOS: 1.71a0 (5.02a1)</p> <p>•FC2142SR •FC2242SR</p> <p>HBA Family 7 SCSIport Driver: 5-5.30a2 FW: 1.91a5 BIOS: 1.71a0 (5.02a1)</p> <p>StorPort Driver: 5-2.00a12 FW: 1.91a5 BIOS: 1.71a0 (5.02a1)</p> <p>•FCA2404 •FCA2404DC •A7387A •A7388A</p> <p>HBA Family 8 SCSI mini-port Driver: 5-5.30a2 FW: 3.93a0 BIOS: 1.70a3</p> <p>StorPort Driver: 5-2.00a12 FW: 3.93a0 BIOS: 1.70a3</p> <p>•FCA2101 •FCA2355</p>	<p>HP FF MPIO DSM for XP Ver: 2.00.02</p> <p>Secure Path Ver: 4.0c SP3</p>	<p>HP StorageWorks Disk Array XP12000 Controller Firmware: 50-09-41-00/00 Minimum Controller Firmware: 50-07-69-00/00</p> <p>HP StorageWorks Cluster Extension XP version 2.08.01^</p> <p>^Note: Cluster Extension XP no longer supported on Windows 2000.</p>	<p>B-Series StorageWorks SAN Switches (8/16 ports 2Gb) FW: 3.2.1b •MSA SAN Switch 2/8 •SAN Switch 2/16</p> <p>StorageWorks SAN Switches (2Gb) FW: 5.3.0d •SAN Switch 2/8V •SAN Switch 2/16V •SAN Switch 2/16N FF</p> <p>StorageWorks SAN Switches (>32 ports) FW: 5.3.0d •SAN Switch 2/32 •SAN Director 2/128</p> <p>StorageWorks SAN Switches (>32 ports) FW: 5.0.5f •Core Switch 2/64</p> <p>StorageWorks SAN Switches (4Gb) FW: 5.3.0d •SAN Switch 4/8 •SAN Switch 4/16 •SAN Switch 4/32 •SAN Switch 4/32E •SAN Director 4/64 •SAN Director 4/256</p> <p>M-Series StorageWorks Director and Edge Switches FW: 09.03.00 •Director 2/64 •Director 2/140 •Edge Switch 2/12 •Edge Switch 2/16 •Edge Switch 2/24 •Edge Switch 2/32</p> <p>C-Series Cisco Switches •MDS 9120 •MDS 9140 •MDS 9216 •MDS 9506 •MDS 9509 •MDS 9513 FW: 3.2(2c)</p> <p>*Note: BL30p, BL35p servers not supported with M-Series director class switches.</p>	<p>For additional information on StorPort drivers, we recommend a search of Microsoft's website for the latest StorPort QFE.</p>

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		<p>HBA Family 9 SCSI mini-port Driver: 9.1.3.11 BIOS: 1.45</p> <p>StorPort Driver: 9.1.3.18 BIOS: 1.45</p> <ul style="list-style-type: none"> • FCA2214 • FCA2214DC • FC Mezz card <p>HBA Family 10 SCSI mini-port Driver: 9.1.3.11 BIOS: 1.48</p> <p>StorPort Driver: 9.1.3.18 BIOS: 1.48</p> <ul style="list-style-type: none"> • FC Balcony card <p>*Note 1: HBAs must be used homogeneously within a cluster; but can be mixed if they are from the same HBA family as identified above.</p> <p>*Note 2: Refer to Server QuickSpecs for confirmation on supported HBAs</p> <p>*Note 3: StorPort Driver only supported on Windows Server 2003 Operating Systems.</p>				<p>January 2008</p>

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#2 Windows Server 2000 & 2003, EE	<p>WS03 supported nodes = 2-8 W2K, SP4 supported nodes = 2</p> <p>ProLiant</p> <ul style="list-style-type: none"> • BL20p G2^ • BL20p G3^^ • BL40p • BL30p^^ • BL35p^^ • BL25p^^^^ • BL45p^^^^ • DL360 G4, DL360 G5 • DL360 G4p • DL365 • DL380 G4, DL380 G5 • DL580 G3, DL580 G4 • DL585, DL585 G2 • DL385, DL385 G2 • ML370 G4, ML370 G5 • ML530, ML530 G2 • ML570 G3, ML570 G4 • BL460c • BL480c • BL465c • BL685c <p>*Note: Servers can be used homogeneously or heterogeneously within a cluster.</p> <p>Maximum supported nodes for BL30p in a SCSIport config = 2</p> <p>^Note: Supports the FC Mezzanine card only.</p> <p>^^Note: Supports the FC Balcony card only.</p> <p>^^^Note: Supports the FC Adapter Card BL20p G3</p> <p>^^^^Note: Supports the HPBALCF 105</p> <p>Server Software: SmartStart Ver: 7.60</p>	<p>HBA Family 1 SCSIport Driver: 9.1.0.13 BIOS: 1.39</p> <p>StorPort Driver: 9.1.0.18 BIOS: 1.39</p> <ul style="list-style-type: none"> • QMH2462 <p>HBA Family 2 SCSIport Driver: 5-5.30a2 FW:2.50a8 BIOS: 1.70a3</p> <p>StorPort Driver: 5-1.11x1 FW:2.50a8 BIOS: 1.70a3</p> <ul style="list-style-type: none"> • LPe1105 <p>HBA Family 3 SCSIport Driver: 9.1.3.11 BIOS: 1.41</p> <p>StorPort Driver: 9.1.3.16 BIOS: 1.41</p> <ul style="list-style-type: none"> • FC1143 • FC1243 <p>HBA Family 4 SCSIport Driver: 5-5.30a2 FW:2.10a10 BIOS: 1.71a0</p> <p>StorPort Driver: 5-1.20a7 FW:2.10a10 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • FC2143 • FC2243 <p>HBA Family 5 SCSIport Driver: 9.1.3.11 BIOS: 1.16</p> <p>StorPort Driver: 9.1.3.16 BIOS: 1.16</p> <ul style="list-style-type: none"> • FC1142SR • FC1242SR <p>HBA Family 6 SCSIport Driver: 5-5.30a2 FW:2.50a6 BIOS: 1.71a0</p> <p>StorPort Driver: 5-1.20a7 FW:2.50a6 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • FC2142SR • FC2242SR <p>HBA Family 7 SCSIport Driver: 5-5.30a2 FW: 1.91a5 BIOS: 1.71a0</p> <p>StorPort Driver: 5-1.20a7 FW: 1.91a1 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • FCA2404 • FCA2404DC • A7387A • A7388A <p>HBA Family 8 SCSI mini-port Driver: 5-5.20a10 FW: 3.93a0 BIOS: 1.70a3</p> <p>StorPort Driver: 5-1.11x1 FW: 3.93a0 BIOS: 1.70a3</p> <ul style="list-style-type: none"> • FCA2101 • FCA2355 	<p>HP FF MPIO DSM for XP Ver: 2.00.01</p> <p>Secure Path Ver: 4.0c SP2-1</p>	<p>HP StorageWorks Disk Array XP12000 Controller Firmware: 50-08-05-00/00 Controller Firmware: 50-05-46-00/00</p> <p>HP StorageWorks Cluster Extension XP version 2.07.00^</p> <p>^Note: Cluster Extension XP no longer supported on Windows 2000.</p>	<p>B-Series StorageWorks SAN Switches (8/16 ports 2Gb) FW: 3.2.1b</p> <ul style="list-style-type: none"> • MSA SAN Switch 2/8 • SAN Switch 2/16 <p>StorageWorks SAN Switches (2Gb) FW: 5.2.0</p> <ul style="list-style-type: none"> • SAN Switch 2/8V • SAN Switch 2/16V • SAN Switch 2/16N FF <p>StorageWorks SAN Switches (>32 ports) FW: 5.2.0</p> <ul style="list-style-type: none"> • SAN Switch 2/32 • SAN Director 2/128 <p>StorageWorks SAN Switches (>32 ports) FW: 5.0.5a</p> <ul style="list-style-type: none"> • Core Switch 2/64 <p>StorageWorks SAN Switches (4Gb) FW: 5.2.0</p> <ul style="list-style-type: none"> • SAN Switch 4/8 • SAN Switch 4/16 • SAN Switch 4/32 • SAN Director 4/64 • SAN Director 4/256 <p>M-Series StorageWorks Director and Edge Switches FW: 09.00.00</p> <ul style="list-style-type: none"> • Director 2/64 • Director 2/140 • Edge Switch 2/12 • Edge Switch 2/16 • Edge Switch 2/24 • Edge Switch 2/32 <p>C-Series Cisco Switches</p> <ul style="list-style-type: none"> • MDS 9120 • MDS 9140 • MDS 9216 • MDS 9506 • MDS 9509 • MDS 9513 <p>FW: 3.0(3)</p> <p>*Note: BL30p, BL35p servers not supported with M-Series director class switches.</p>	<p>For additional information on StorPort drivers, we recommend a search of Microsoft's website for the latest StorPort QFE.</p>

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		<p><u>HBA Family 9</u> SCSI mini-port Driver: 9.1.3.11 BIOS: 1.45</p> <p>StorPort Driver: 9.1.3.16 BIOS: 1.45</p> <ul style="list-style-type: none"> • FCA2214 • FCA2214DC • FC Mezz card <p><u>HBA Family 10</u> SCSI mini-port Driver: 9.1.3.11 BIOS: 1.48</p> <p>StorPort Driver: 9.1.3.16 BIOS: 1.48</p> <ul style="list-style-type: none"> • FC Balcony card <p>*Note 1: HBAs must be used homogeneously within a cluster; but can be mixed if they are from the same HBA family as identified above.</p> <p>*Note 2: Refer to Server QuickSpecs for confirmation on supported HBAs</p> <p>*Note 3: StorPort Driver only supported on Windows Server 2003 Operating Systems.</p>				February 2007

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#3 Windows Server 2000 & 2003, EE	<p>WS03 supported nodes = 2-8 W2K, SP4 supported nodes = 2</p> <p>ProLiant</p> <ul style="list-style-type: none"> • BL20p G2^, BL20p G3^, BL25p^, BL45p^ • BL40p • BL30p^^, BL35p^^ • DL360 G3, DL360 G4, DL360 G4p • DL380 G3, DL380 G4 • DL385 • DL560 • DL580, DL580 G2, DL580 G3 • DL585 • DL740 • DL760, DL760 G2 • ML370 G3, ML370 G4 • ML530, ML530 G2 • ML570, ML570 G2, ML570 G3 • ML750 <p>*Note: Servers can be used homogeneously or heterogeneously within a cluster.</p> <p>^Note: Supports the FC Mezzanine card only.</p> <p>^^Note: Supports the FC Balcony card only. Maximum supported nodes = 2 for W2K & WS03.</p> <p>Server Software: SmartStart Ver: 7.30</p>	<p>HBA Family 1 SCSI mini-port Driver: 5-5.10a10 FW: 1.90a4 BIOS: 1.70a1</p> <p>StorPort Driver^: 5-1.02a7 FW: 1.90a4 BIOS: 1.70a1</p> <ul style="list-style-type: none"> •FCA2404 •FCA2404DC <p>HBA Family 2 SCSI mini-port Driver: 5-5.10a10 FW: 1.90a4 BIOS: 1.70a1</p> <p>StorPort Driver^: 5-1.02a7 FW: 1.90a4 BIOS: 1.70a1</p> <ul style="list-style-type: none"> •A7387A •A7388A <p>HBA Family 3 SCSI mini-port Driver: 5-4.82.a16 FW: 3.91a1 BIOS: 1.63a1</p> <p>SCSI mini-port Driver: 5-5.10a10 FW: 3.92a2 BIOS: 1.70a1</p> <p>StorPort Driver^: 5-1.02a7 FW: 3.92a2 BIOS: 1.70a1</p> <ul style="list-style-type: none"> •FCA2101 •FCA2355 <p>HBA Family 4 SCSI mini-port Driver: 9.0.0.13 FW: n/a BIOS: 1.34</p> <p>SCSI mini-port Driver: 8.2.0.73 FW: n/a BIOS: 1.34 or 1.45</p> <p>StorPort Driver: 9.0.2.16 FW: n/a BIOS: 1.45</p> <ul style="list-style-type: none"> •FCA2214 •FCA2214DC •FC Mezz card^ <p>^For BL20p G3: SCSI mini-port Driver: 9.0.0.13 or 9.0.2.11 FW: n/a BIOS: 1.45</p> <p>HBA Family 5 SCSI mini-port Driver: 9.0.0.14 or 9.0.2.11 FW: n/a BIOS: 1.45</p> <ul style="list-style-type: none"> •FC Balcony card <p>*Note 1: HBAs must be used homogeneously within a cluster; but can be mixed if they are from the same HBA family as identified above.</p> <p>*Note 2: Refer to Server QuickSpecs for confirmation on supported HBAs</p> <p>^Note: StorPort Driver only supported on Windows Server 2003 Operating Systems.</p>	<p><u>Secure Path</u> Ver: 4.0c SP1 Hpap.sys ver: 3.1.130.0</p> <p><u>Secure Path</u> Ver: 4.0c SP2 Hpap.sys ver: 3.2.130.0</p>	<p><u>HP StorageWorks</u> <u>Disk Array XP12000</u> Controller Firmware ver: 50-03-69-00/00</p> <p><u>HP StorageWorks</u> <u>Cluster Extension XP</u> version 2.05.01</p>	<p>B-Series StorageWorks SAN Switches (8/16 ports 2GB) FW: 3.2.0 or 3.2.0a</p> <ul style="list-style-type: none"> •SAN Switch 2/8V •MSA SAN Switch 2/8 ++ •SAN Switch 2/16 •SAN Switch 2/16V •SAN Switch 2/16N FF <p>StorageWorks SAN Switches (>32 ports) FW: 4.4.0b or 4.4.0c</p> <ul style="list-style-type: none"> •SAN Switch 2/32 •Core Switch 2/64 •SAN Director 2/128 <p>M-Series StorageWorks Director and Edge Switches FW: 06.02.00-22 or 07.00.00-84</p> <ul style="list-style-type: none"> •Director 2/64 •Director 2/140 •Edge Switch 2/12 •Edge Switch 2/24 •Edge Switch 2/32 <p>C-Series Cisco Switches FW: 2.0.1b or 2.1.1a</p> <ul style="list-style-type: none"> •MDS 9120 •MDS 9140 •MDS 9216 •MDS 9506 •MDS 9509 <p>*Note: BL30p, BL35p servers not supported with M-Series director class switches.</p>	<p>For additional information on StorPort drivers, we recommend a search of Microsoft's website for the latest StorPort QFE.</p> <p>June 2005</p>

Config	Supported Servers*	Host Bus Adapters (HBAs)**	Multi Path Software	Storage Information	Interconnects (Switches)	Other
#4 Windows Server 2000 & 2003, EE	<p>WS03 supported nodes = 2-8 W2K, SP4 supported nodes = 2</p> <p>ProLiant</p> <ul style="list-style-type: none"> • BL20p G2^, BL20p G3^ • BL40p • BL30p^^ • DL360 G3, DL360 G4 • DL380 G3, DL380 G4 • DL560 • DL580, DL580 G2 • DL585 • DL740 • DL760, DL760 G2 • ML370 G3, ML370 G4 • ML530, ML530 G2 • ML570, ML570 G2 • ML750 <p>*Note: Servers can be used homogeneously or heterogeneously within a cluster.</p> <p>^Note: Supports the FC Mezzanine card only.</p> <p>^^Note: Supports the FC Balcony card only. Maximum supported nodes = 2 for W2K & WS03.</p> <p>Server Software: SmartStart Ver: 7.1 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.1)</p>	<p>HBA Family 1 SCSI mini-port Driver: 5-5.10a10 FW: 1.90a4 BIOS: 1.70a1</p> <p>StorPort Driver^: 5-1.02a5 FW: 1.81a2 BIOS: 1.70a1</p> <ul style="list-style-type: none"> • FCA2404 • FCA2404DC <p>HBA Family 2 SCSI mini-port Driver: 5-5.10a10 FW: 1.81a3 BIOS: 1.70a1</p> <p>StorPort Driver^: 5-1.02a5 FW: 1.81a4 BIOS: 1.70a1</p> <ul style="list-style-type: none"> • A7387A • A7388A <p>HBA Family 3 SCSI mini-port Driver: 5-4.82.a16 FW: 3.91a1 BIOS: 1.63a1</p> <p>SCSI mini-port Driver: 5-5.10a10 FW: 3.92a2 BIOS: 1.70a1</p> <p>StorPort Driver^: 5-1.02a5 FW: 3.92a2 BIOS: 1.70a1</p> <ul style="list-style-type: none"> • FCA2101 • FCA2355 <p>HBA Family 4 SCSI mini-port Driver: 9.0.0.13 FW: n/a BIOS: 1.34</p> <p>SCSI mini-port Driver: 8.2.0.73 FW: n/a BIOS: 1.34 or 1.45</p> <ul style="list-style-type: none"> • FCA2214 • FCA2214DC • FC Mezz card^ <p>^For BL20p G3: SCSI mini-port Driver: 9.0.1.10 FW: n/a BIOS: 1.45</p> <p>HBA Family 5 SCSI mini-port Driver: 9.0.0.14 FW: n/a BIOS: 1.45</p> <ul style="list-style-type: none"> • FC Balcony card <p>*Note 1: HBAs must be used homogeneously within a cluster; but can be mixed if they are from the same HBA family as identified above.</p> <p>*Note 2: Refer to Server QuickSpecs for confirmation on supported HBAs</p> <p>^Note: StorPort Driver only supported on Windows Server 2003 Operating Systems.</p>	<p>Secure Path Ver: 4.0c SP1 or SP2 Raidisk.sys ver: 3.7.2.460</p>	<p>HP StorageWorks Disk Array XP12000 Controller Firmware ver: 50-01-40-00/00</p> <p>HP StorageWorks Cluster Extension XP version 2.05</p>	<p>B-Series StorageWorks SAN Switches (8/16 ports 2GB) FW: 3.1.3a or 3.1.3</p> <ul style="list-style-type: none"> • SAN Switch 2/8V • MSA SAN Switch 2/8 ++ • SAN Switch 2/16 • SAN Switch 2/16V • SAN Switch 2/16N FF <p>StorageWorks SAN Switches (>32 ports) FW: 4.2.2a or 4.2.2</p> <ul style="list-style-type: none"> • SAN Switch 2/32 • Core Switch 2/64 • SAN Director 2/128 <p>M-Series StorageWorks Director and Edge Switches FW: 06.02.00-22 or 06.01.00-18</p> <ul style="list-style-type: none"> • Director 2/64 • Director 2/140 • Edge Switch 2/12 • Edge Switch 2/24 • Edge Switch 2/32 <p>C-Series Cisco Switches FW: 1.3.4a</p> <ul style="list-style-type: none"> • MDS 9120 • MDS 9140 • MDS 9216 • MDS 9506 • MDS 9509 <p>*Note: BL30p server supported with B-Series switches & M-Series Edge Switch 2/12, 2/24 only.</p>	<p>For additional information on StorPort drivers, we recommend a search of Microsoft's website for the latest StorPort QFE.</p> <p>September 2004</p>

Config	Supported Servers*	Host Bus Adapters (HBAs)**	Multi Path Software	Storage Information	Interconnects (Switches)	Other
#5 Windows Server 2000 & 2003, EE	<p>WS03 supported nodes = 2-8 W2K, SP4 supported nodes = 2</p> <p>ProLiant</p> <ul style="list-style-type: none"> • BL20p G2^, BL20p G3^ • BL40p • BL30p^^ • DL360 G3, DL360 G4 • DL380 G3, DL380 G4 • DL560 • DL580, DL580 G2 • DL585 • DL740 • DL760, DL760 G2 • ML370 G3, ML370 G4 • ML530, ML530 G2 • ML570, ML570 G2 • ML750 <p>*Note: Servers can be used homogeneously or heterogeneously within a cluster.</p> <p>^Note: Supports the FC Mezzanine card only.</p> <p>^^Note: Supports the FC Balcony card only. Maximum supported nodes = 2 for W2K & WS03.</p> <p>Server Software: SmartStart Ver: 7.1 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.1)</p>	<p>HBA Family 1 SCSI mini-port Driver: 5-5.10a10 FW: 1.81a2 BIOS: 1.70a1</p> <p>StorPort Driver^: 5-1.02a5 FW: 1.81a2 BIOS: 1.70a1</p> <ul style="list-style-type: none"> • FCA2404 • FCA2404DC <p>HBA Family 2 SCSI mini-port Driver: 5-5.10a10 FW: 1.81a3 BIOS: 1.70a1</p> <p>StorPort Driver^: 5-1.02a5 FW: 1.81a3 BIOS: 1.70a1</p> <ul style="list-style-type: none"> • A7387A • A7388A <p>HBA Family 3 SCSI mini-port Driver: 5-4.82.a16 FW: 3.91a1 BIOS: 1.63a1</p> <p>SCSI mini-port Driver: 5-5.10a10 FW: 3.92a2 BIOS: 1.70a1</p> <p>StorPort Driver^: 5-1.02a5 FW: 3.92a2 BIOS: 1.70a1</p> <ul style="list-style-type: none"> • FCA2101 • FCA2355 <p>HBA Family 4 SCSI mini-port Driver: 9.0.0.13 FW: n/a BIOS: 1.34</p> <p>SCSI mini-port Driver: 8.2.0.73 FW: n/a BIOS: 1.34</p> <ul style="list-style-type: none"> • FCA2214 • FCA2214DC • FC Mezz card^ <p>^For BL20p G3: SCSI mini-port Driver: 9.0.1.10 FW: n/a BIOS: 1.45</p> <p>HBA Family 5 SCSI mini-port Driver: 9.0.0.14 FW: n/a BIOS: 1.45</p> <ul style="list-style-type: none"> • FC Balcony card <p>*Note 1: HBAs must be used homogeneously within a cluster; but can be mixed if they are from the same HBA family as identified above.</p> <p>*Note 2: Refer to Server QuickSpecs for confirmation on supported HBAs</p> <p>^Note: StorPort Driver only supported on Windows Server 2003 Operating Systems.</p>	<p>Secure Path Ver: 4.0c SP1 Raidisk.sys ver: 3.7.2.460</p>	<p>HP StorageWorks Disk Array XP12000 Controller Firmware ver: 50-01-40-00/00</p> <p>HP StorageWorks Cluster Extension XP version 2.05</p>	<p>B-Series StorageWorks SAN Switches (8/16 ports 2GB) FW: 3.1.3a or 3.1.3</p> <ul style="list-style-type: none"> • SAN Switch 2/8V • MSA SAN Switch 2/8 ++ • SAN Switch 2/16 • SAN Switch 2/16V • SAN Switch 2/16N FF <p>StorageWorks SAN Switches (>32 ports) FW: 4.2.2a or 4.2.2</p> <ul style="list-style-type: none"> • SAN Switch 2/32 • Core Switch 2/64 • SAN Director 2/128 <p>M-Series StorageWorks Director and Edge Switches FW: 06.02.00-22 or 06.01.00-18</p> <ul style="list-style-type: none"> • Director 2/64 • Director 2/140 • Edge Switch 2/12 • Edge Switch 2/24 • Edge Switch 2/32 <p>C-Series Cisco Switches FW: 1.3.4a</p> <ul style="list-style-type: none"> • MDS 9120 • MDS 9140 • MDS 9216 • MDS 9506 • MDS 9509 <p>*Note: BL30p server supported with B-Series switches & M-Series Edge Switch 2/12, 2/24 only.</p>	<p>For additional information on StorPort drivers, we recommend a search of Microsoft's website for the latest StorPort QFE.</p> <p>September 2004</p>