



HP Cluster Configuration Support Matrix for Microsoft Windows 2000 Advanced Server & Windows 2003, x86 Enterprise Edition HP StorageWorks MSA1500cs

Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information*	Interconnects (Switches)*	Other
<p>#1</p> <p>Windows Server 2003, EE R2 &</p> <p>Windows 2000 Advanced Server, SP4</p>	<p>Max supported nodes W2K3 = 8 Max supported nodes W2K = 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. 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: 7.70 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.4)</p>	<p>HBA Family 1 SCSIPort Driver: 5-5.30a2 FW: 1.91a5 BIOS: 1.71a0</p> <p>StorPort Driver: 5-1.20a7 FW: 1.91a5 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • FCA2404 • FCA2404DC • A7387A • A7388A <p>HBA Family 2 SCSIPort Driver: 5-5.30a2 FW: 1.91a5 BIOS: 1.71a0</p> <p>StorPort Driver: 5-1.20a7 FW: 1.91a5 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • E-FC Balcony Card ^^ • E-FC Adapter Card ^^^ <p>^^For the BL25p, BL30p, BL35p, & BL45p use E-FC Balcony Card.</p> <p>^^^For the BL20p G3 use E-FC Adapter Card.</p> <p>HBA Family 3 SCSIPort 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>HBA Family 4 SCSIport Driver: 9.1.3.11 FW: Loaded from Driver BIOS FC Balcony: 1.48 BIOS: 1.45</p> <p>StorPort Driver: 9.1.3.16 FW: Loaded from Driver BIOS FC Balcony: 1.48 BIOS: 1.45</p> <ul style="list-style-type: none"> • FCA2214 • FCA2214DC • FC Balcony card • FC Mezz card ^ <p>^For the BL20p G3 use: BIOS: 1.45 bl20p G3</p> <p>HBA Family 5 SCSIport Driver: 9.1.3.11 FW: NA BIOS: 1.48</p> <p>StorPort Driver: 9.1.3.16 FW: NA BIOS: 1.48</p> <p>HPBALCF105 for BL25p and BL45p</p> <p>HBA Family 6 SCSIport Driver: 5-5.30a2 FW: 2.50a2 BIOS: 1.71a0</p> <p>StorPort Driver: 5-1.20a7 FW: 2.50a2 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • FC2142 • FC2242 <p>HBA Family 7</p>	<p>Secure Path Ver: 4.0c SP2-1</p>	<p>StorageWorks MSA1500cs Storage Controller FW ver: 5.10</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>FW: 5.2.0b</p> <ul style="list-style-type: none"> • SAN Switch 2/32 • SAN Switch 2/8V • SAN Switch 2/16V • SAN Switch 2/16N_FF • SAN Director 2/128 <p>StorageWorks SAN Switches (>32 ports) FW: 5.0.5c</p> <ul style="list-style-type: none"> • Core Switch 2/64 <p>StorageWorks SAN Switches (4GB) FW: 5.2.0b</p> <ul style="list-style-type: none"> • 4/8 SAN Switch • 4/16 SAN Switch • 4/32 SAN Switch • 4/256 SAN Director <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 2/24 • Edge Switch 2/32 <p>C-Series Cisco Switches FW: 3.1(2a)</p> <ul style="list-style-type: none"> • MDS 9120 • MDS 9140 • MDS 9216 • MDS 9506 • MDS 9509 <p>^^Note: Not supported with BL server line.</p> <p>*Note: BL30p server supported with B-series switches only.</p>	<p>Product Page</p> <p>Supporting Documentation</p> <p>MSCS Support Matrix - archive</p> <p style="text-align: right;">March 2007</p>

	<p>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 8 SCSIport Driver: 5-5.30a2 FW: 2.50a8 BIOS: 3.00a4</p> <p>StorPort Driver: 5-1.20a7 FW: 2.50a8 BIOS: 3.00a4</p> <ul style="list-style-type: none"> • LPe1105 <p>HBA Family 9 SCSIport Driver: 9.1.3.11 FW: Loaded from driver BIOS: 1.16</p> <p>StorPort Driver: 9.1.3.16 FW: Loaded from driver BIOS: 1.16</p> <ul style="list-style-type: none"> • FC1143 • FC1243 <p>HBA Family 10 SCSIport Driver: 9.1.3.11 FW: Loaded from driver BIOS: 1.16</p> <p>StorPort Driver: 9.1.3.16 FW: Loaded from driver BIOS: 1.16</p> <ul style="list-style-type: none"> • FC1142 • FC1242 <p>HBA Family 11 SCSIport Driver: 9.1.3.11 FW: Loaded from driver BIOS: 1.26</p> <p>StorPort Driver: 9.1.3.16 FW: Loaded from driver BIOS: 1.26</p> <ul style="list-style-type: none"> • QMH2462 <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>*Note 4: For additional information on StorPort drivers, search the Microsoft's website for the latest StorPort QFE.</p>				
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Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information*	Interconnects (Switches)*	Other
<p>#1</p> <p>Windows Server 2003, EE R2</p> <p>&</p> <p>Windows 2000 Advanced Server, SP4</p>	<p>Max supported nodes = 8</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. 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 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.4)</p>	<p>HBA Family 1 SCSIport Driver: 5-5.30a2 FW: 1.91a5 BIOS: 1.71a0</p> <p>StorPort Driver: 5-1.20a7 FW: 1.91a5 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • FCA2404 • FCA2404DC • A7387A • A7388A <p>HBA Family 2 SCSIport Driver: 9.1.3.11 FW: 1.91a5 BIOS for 25p/45p: 1.48 BIOS for 20p/30p/35p: 1.45</p> <p>StorPort Driver: 9.1.3.16 FW: 1.91a5 BIOS for 25p/45p: 1.48 BIOS for 20p/30p/35p: 1.45</p> <ul style="list-style-type: none"> • E-FC Balcony Card ^^ • E-FC Adapter Card ^^^ <p>^^For the BL25p, BL30p, BL35p, & BL45p use E-FC Balcony Card.</p> <p>^^^For the BL20p G3 use E-FC Adapter Card.</p> <p>HBA Family 3 SCSIport 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>HBA Family 4 SCSIport Driver: 9.1.3.11 FW: NA BIOS: 1.45</p> <p>StorPort Driver: 9.1.3.16 FW: NA BIOS: 1.45</p> <ul style="list-style-type: none"> • FCA2214 • FCA2214DC • FC Balcony card • FC Mezz card ^ <p>*For the BL20p G3 use: BIOS: 1.45 bl20p G3</p> <p>HBA Family 5 SCSIport Driver: 9.1.3.11 FW: NA BIOS: 1.48</p> <p>StorPort Driver: 9.1.3.16 FW: NA BIOS: 1.48</p> <p>HPBALCF105 for BL25p and BL45p</p> <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"> • FC2142 • FC2242 <p>HBA Family 7 SCSIport Driver: 5-5.30a2 FW: 2.10a10 BIOS: 1.71a0</p> <p>StorPort Driver: 5-1.20a7</p>	<p>Secure Path Ver: 4.0c SP2-1</p>	<p>StorageWorks MSA1500cs Storage Controller FW ver: 5.10</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>FW: 5.2.0</p> <ul style="list-style-type: none"> • SAN Switch 2/32 • SAN Switch 2/8V • SAN Switch 2/16V • SAN Switch 2/16N FF • SAN Director 2/128 <p>StorageWorks SAN Switches (>32 ports) FW: 5.2.0</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"> • 4/8 SAN Switch • 4/16 SAN Switch • 4/32 SAN Switch • 4/256 SAN Director <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 2/24 • Edge Switch 2/32 <p>C-Series Cisco Switches FW: 3.0(3)</p> <ul style="list-style-type: none"> • MDS 9120 • MDS 9140 • MDS 9216 • MDS 9506 • MDS 9509 <p>**Note: Not supported with BL server line.</p> <p>*Note: BL30p server supported with B-series switches only.</p>	<p>Product Page</p> <p>Supporting Documentation</p> <p>MSCS Support Matrix - archive</p> <p>January 2007</p>

	<p>FW: 2.10a10 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • FC2143 • FC2243 <p>HBA Family 8 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 9 SCSIport Driver: 9.1.3.11 FW: Loaded from driver BIOS: 1.16</p> <p>StorPort Driver: 9.1.3.16 FW: 2.50a2 BIOS: 1.16</p> <ul style="list-style-type: none"> • FC1143 • FC1243 <p>HBA Family 10 SCSIport Driver: 9.1.3.11 FW: Loaded from driver BIOS: 1.16</p> <p>StorPort Driver: 9.1.3.16 FW: Loaded from driver BIOS: 1.16</p> <ul style="list-style-type: none"> • FC1142 • FC1242 <p>HBA Family 10 SCSIport Driver: 9.10.13 FW: Loaded from driver BIOS: 1.16</p> <p>StorPort Driver: 9.1.0.18 FW: Loaded from driver BIOS: 1.16</p> <ul style="list-style-type: none"> • QMH2462 <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>*Note 4: For additional information on StorPort drivers, search the Microsoft's website for the latest StorPort QFE.</p>				
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Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information*	Interconnects (Switches)*	Other
<p>#2</p> <p>Windows Server 2003, EE</p> <p>&</p> <p>Windows 2000 Advanced Server, SP4</p>	<p>WS03 supported nodes = 8 W2K supported nodes = 2</p> <p>ProLiant</p> <ul style="list-style-type: none"> • BL20p G2^ • BL20p G3^^ • BL40p • BL30p^^ • BL35p^^ • BL25p^^^ • BL45p^^^ • DL360 G3, DL360 G4 • DL360 G4p • DL380 G3, DL380 G4 • DL560 • DL580G2, DL580 G3 • DL585 • DL385 • DL740 • DL760, DL760 G2 • ML370 G3, ML370 G4 • ML530, ML530 G2 • ML570G2, ML570 G3 • ML750 <p>*Note: Servers can be used homogeneously or heterogeneously within a cluster. 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: 7.4 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.4)</p>	<p>HBA Family 1 SCSIport Driver: 5-5.20a9 FW: 1.91a1 BIOS: 1.70a3</p> <p>StorPort Driver: 5-1.11a0 FW: 1.91a1 BIOS: 1.70a3</p> <ul style="list-style-type: none"> • FCA2404 • FCA2404DC • A7387A • A7388A • A7560A <p>HBA Family 2 SCSIport Driver: 5-5.20a9 FW: 1.91a2 BIOS: 1.70a3</p> <p>StorPort Driver: 5-1.11a0 FW: 1.91a2 BIOS: 1.70a3</p> <ul style="list-style-type: none"> • E-FC Balcony Card ^^ • E-FC Adapter Card ^^ <p>^^For the BL25p, BL30p, BL35p, & BL45p use E-FC Balcony Card.</p> <p>^^^For the BL20p G3 use E-FC Adapter Card.</p> <p>HBA Family 2 SCSIport Driver: 5-5.20a9 FW: 3.93a0 for FCA2101 FW: 3.92a2 for FCA2355 BIOS: 1.70a3</p> <p>Storport Driver: 5-1.11a0 FW: 3.93a0 for FCA2101 FW: 3.92a2 for FCA2355 BIOS: 1.70a3</p> <ul style="list-style-type: none"> • FCA2101 • FCA2355 <p>HBA Family 3 SCSIport Driver: 9.0.2.11 FW: NA BIOS: 1.45</p> <p>StorPort Driver: 9.0.2.16 FW: NA BIOS: 1.45</p> <ul style="list-style-type: none"> • FCA2214 • FCA2214DC • FC Balcony card • FC Mezz card ^ <p>HBA Family 4 SCSIport Driver: 9.0.2.11 FW: NA BIOS: 1.48</p> <p>StorPort Driver: 9.0.2.16 FW: NA BIOS: 1.48</p> <p>HPBALCF105 for BL25p and BL45p</p> <p>HBA Family 5 SCSIport Driver: 5-1.11a0 FW: 2.50a2 BIOS: 1.70a3</p> <p>StorPort Driver:5-5.20a9 FW: 2.50a2 BIOS: 1.70a3</p> <ul style="list-style-type: none"> • FC2142 • FC2242 <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</p>	<p>Secure Path Ver: 4.0c SP2 Raidisk.sys ver:</p>	<p>StorageWorks MSA1500cs Storage Controller FW ver: 4.94</p> <p>Support Software CD: hp StorageWorks Modular Smart Array 1500cs Support Software CD ver: 7.01-01</p>	<p>B-Series StorageWorks SAN Switches (8/16 ports 2GB) FW: 3.2.0a</p> <ul style="list-style-type: none"> • SAN Switch 2/16 <p>FW: 5.01b</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: 5.01b</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: 07.01.02-4</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: 2.1(2b)</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>Product Page</p> <p>Supporting Documentation</p> <p>November, 2005</p>

		Server 2003 Operating Systems. *Note 4: For additional information on StorPort drivers, search the Microsoft's website for the latest StorPort QFE.				
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