



HP Cluster Configuration Support Matrix

For Microsoft Windows 2000 Advanced Server & Windows Server 2003 (x86), EE & HP StorageWorks MSA1000

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 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 SCSI Port 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 SCSI Port 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 SCSI 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>HBA Family 4 SCSI port 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 SCSI port 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 SCSI port 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>Secure Path Ver: 4.0c SP2-1 Raidisk.sys ver: 3.7.2.540</p>	<p>StorageWorks MSA1000 Storage Controller FW: v4.48</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>HBA Family 7 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>				
--	---	--	--	--	--

Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information	Interconnects (Switches)*	Other
#1 Windows Server 2003, EE R2 & Windows 2000 Advanced Server, SP4	<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 SCSI Port 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 SCSI Port 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 SCSI 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>HBA Family 4 SCSI Port 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 SCSI Port 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 SCSI port 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 SCSI port Driver: 5-5.30a2 FW: 2.10a10 BIOS: 1.71a0</p> <p>StorPort Driver: 5-1.20a7 FW: 2.10a10</p>	<p>Secure Path Ver: 4.0c SP2-1 Raidisk.sys ver: 3.7.2.540</p>	<p>StorageWorks MSA1000 Storage Controller FW: v4.48</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>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>				
--	---	--	--	--	--

Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information	Interconnects (Switches)*	Other
#2 Windows Server 2003, EE with Service Pack 1	<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 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 Adapter Card BL20p G3</p> <p>^^^^Note: Supports the HPBALCF 105</p> <p>Server Software: SmartStart Ver: 7.3 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.3)</p>	<p>HBA Family 1 StorPort Driver: 5-1.02a7 FW: 1.90a4 BIOS: 1.70a1</p> <ul style="list-style-type: none"> • FCA2404 • FCA2404DC • A7560A • A7387A • A7388A <p>HBA Family 2 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>^For the BL20p G3 use: BIOS: 1.45 bl20p G3</p> <p>HBA Family 3 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>*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: Fibre Channel HBA included in the ProLiant DL380 G3 Packaged Cluster with MSA1000 product</p> <p>*Note 4: StorPort Driver only supported on Windows Server 2003 Operating Systems.</p> <p>*Note 5: For additional information on StorPort drivers, search the Microsoft's website for the latest StorPort QFE.</p>	<p>Secure Path Ver: 4.0c SP1 Raidisk.sys ver: 3.7.2.460</p> <p>Secure Path Ver: 4.0c SP2 Raidisk.sys ver: 3.7.2.540</p>	<p>StorageWorks MSA1000 Storage Controller FW: v4.48</p> <p>MSA1000 Support Software CD ver: 6.51-02</p>	<p>B-Series StorageWorks SAN Switches (8/16 ports 2GB) FW: 3.2.0</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</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: 07.00.00-84</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)</p> <ul style="list-style-type: none"> • MDS 9120 • MDS 9140 • MDS 9216 • MDS 9506 • MDS 9509 <p>Other Switches and Hubs</p> <ul style="list-style-type: none"> • MSA Hub 2/3^^ <p>^Note: Fibre Channel switch included in the ProLiant DL380 G3 & G4 Packaged Cluster for MSA1000 product</p> <p>^^Note: Not supported with BL server line</p> <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>MSCS Support Matrix - archive</p> <p>June. 2005</p>

Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information	Interconnects (Switches)*	Other
#3 Windows Server 2003, EE	<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 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: 7.3 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.3)</p>	<p>HBA Family 1 SCSIport 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 • A7560A • A7387A • A7388A <p>HBA Family 2 SCSIport Driver: 5-5.10a10 FW: 3.92a2 BIOS: 1.70a1</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>^For the BL20p G3 use: BIOS: 1.45 bl20p G3</p> <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>*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: Fibre Channel HBA included in the ProLiant DL380 G3 Packaged Cluster with MSA1000 product</p> <p>*Note 4: StorPort Driver only supported on Windows Server 2003 Operating Systems.</p> <p>*Note 5: For additional information on StorPort drivers, search the Microsoft's website for the latest StorPort QFE.</p>	<p>Secure Path Ver: 4.0c SP1 Raidisk.sys ver: 3.7.2.460</p>	<p>StorageWorks MSA1000 Storage Controller FW: v4.32</p> <p>Storage EMU: V1.86</p> <p>MSA1000 Support Software CD ver: 6.51-02</p>	<p>B-Series StorageWorks SAN Switches (8/16 ports 2GB) FW: 3.2.0</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</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: 07.00.00-84</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)</p> <ul style="list-style-type: none"> • MDS 9120 • MDS 9140 • MDS 9216 • MDS 9506 • MDS 9509 <p>Other Switches and Hubs</p> <ul style="list-style-type: none"> • MSA Hub 2/3^^ <p>^Note: Fibre Channel switch included in the ProLiant DL380 G3 & G4 Packaged Cluster for MSA1000 product</p> <p>^^Note: Not supported with BL server line</p> <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>MSCS Support Matrix - archive</p> <p>May. 2005</p>

Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information	Interconnects (Switches)*	Other
#4 Windows Server 2003, EE	<p>Max supported nodes = 8</p> <p>ProLiant</p> <ul style="list-style-type: none"> • BL20p G2^, BL20p G3^ • BL40p 	<p>HBA Family 1 SCSIport Driver: 5-5.10a10 FW: 1.81a2 BIOS: 1.70a1</p>	<p>Secure Path Ver: 4.0c SP1 Raidisk.sys ver: 3.7.2.460</p>	<p>StorageWorks MSA1000 Storage Controller FW: v4.32</p>	<p>B-Series StorageWorks SAN Switches (8/16 ports 2GB) FW: 3.1.2</p>	<p>Product Page</p> <p>Supporting Documentation</p>

	<ul style="list-style-type: none"> • 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.</p> <p>SmartStart Ver: 7.1 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.1)</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 SCSIport 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 SCSIport 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 Driver: 8.2.0.73 FW: NA BIOS: 1.34</p> <ul style="list-style-type: none"> • FCA2214+ • FCA2214DC • FC Mezz card ^ <p>^For the BL20p G3 use: SCSIport Driver: 9.0.0.13 FW: n/a BIOS: 1.43</p> <p>HBA Family 5 SCSIport Driver: 9.0.0.14 FW: n/a BIOS: 1.43</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: Fibre Channel HBA included in the ProLiant DL380 G3 Packaged Cluster with MSA1000 product</p> <p>*Note 4: StorPort Driver only supported on Windows Server 2003 Operating Systems.</p> <p>*Note 5: For additional information on StorPort drivers, search the Microsoft's website for the latest StorPort QFE.</p>		<p>FCAC driver ver: v.5.24.0.32</p> <p>Storage EMU: V1.86</p> <p>MSA1000 Support Software CD ver: 6.51-02</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: 4.2.0b</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>Other Switches and Hubs</p> <ul style="list-style-type: none"> • MSA Hub 2/3^^ <p>^Note: Fibre Channel switch included in the ProLiant DL380 G3 & G4 Packaged Cluster for MSA1000 product</p> <p>^^Note: Not supported with BL server line</p> <p>*Note: BL30p server supported with B-Series switches & M-Series Edge Switch 2/12, 2/24 only.</p>	<p>MSCS Support Matrix - archive</p> <p>Nov. 2004</p>
--	---	---	--	--	--	---

Config	Supported Servers*	Server Software	Host Bus Adapters (HBAs)**	Multi Path Software	Storage Information	Interconnects (Switches)	Other
#5 Windows Server 2003, EE	<p>Max supported nodes = 8</p> <p>ProLiant</p> <ul style="list-style-type: none"> • BL20p G2^ • BL40p • DL360, DL360 G2, DL360 G3 • DL380, DL380 G2, DL380 G3 • DL560 • DL580, DL580 G2 • DL585^^ • DL740 • DL760, DL760 G2 • ML370 G3 • 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: To configure the DL585 use the supplemental and Smart Start 7.0 CD that ships with the server. Server is not supported w/ HBA Family 1.</p>	<p>SmartStart Ver: 7.0 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.0)</p>	<p>HBA Family 1 Driver: 5-4.82.a16 FW: 3.91a1 BIOS: 1.63a1</p> <ul style="list-style-type: none"> • FCA2101 • FCA2355 <p>HBA Family 2 Driver: 5-4.82.a16 FW: 1.01a2 BIOS: 1.63a1</p> <ul style="list-style-type: none"> • FCA2404 • FCA2404DC <p>HBA Family 3 Driver: 8.2.0.73 FW: NA BIOS: 1.34</p> <ul style="list-style-type: none"> • FCA2214 • FCA2214DC • FC Mezz card <p>** Note: 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>Secure Path Ver: 4.0c Raidisk.sys ver: 3.7.2.240</p>	<p>StorageWorks MSA1000 Storage Controller FW: v4.32</p> <p>FCAC driver ver: v.5.24.0.32</p> <p>Storage EMU: V1.86</p> <p>MSA1000 Support Software CD ver : 6.52</p>	<p>StorageWorks SAN Switches (1GB) FW: 2.6.2</p> <ul style="list-style-type: none"> • SAN Switch 16-EL • SAN Switch 8-EL • SAN Switch 8 & 16 • SAN Switch Integrated 32 • SAN Switch Integrated 64 <p>StorageWorks SAN Switches (8/16 ports 2GB) FW: 3.1.2</p> <ul style="list-style-type: none"> • SAN Switch 2/8 EL • SAN Switch 2/16 EL • SAN Switch 2/16 • MSA SAN Switch 2/8 ++ <p>StorageWorks SAN Switches (>32 ports) FW: 4.2.0b</p> <ul style="list-style-type: none"> • SAN Switch 2/32 • Core Switch 2/64 <p>StorageWorks Director and Edge Switches FW: 05.02.00-13</p> <ul style="list-style-type: none"> • Director 2/64 • Director 2/140 • Edge Switch 2/16 • Edge Switch 2/24 • Edge Switch 2/32 <p>Cisco Switches FW: 1.2.1b</p> <ul style="list-style-type: none"> • MDS 9120 • MDS 9140 • MDS 9216 • MDS 9506 • MDS 9509 <p>Other Switches and Hubs</p> <ul style="list-style-type: none"> • MSA Hub 2/3+ <p>+Not supported with BL server line ++ Fibre Channel switch included in the ProLiant DL380 G3 Packaged Cluster with MSA1000 product</p>	<p>Product Page</p> <p>Supporting Documentation</p> <p>MSCS Support Matrix - archive</p> <p>June 2004</p>

Config	Supported Servers *	Server Software	Host Bus Adapters (HBAs) **	Multi-Path Software	Storage Information	Interconnects (Switches)	Other
#6 Windows Server 2003, EE	<p>Max supported nodes = 8</p> <p>ProLiant:</p> <ul style="list-style-type: none"> • BL20p G2 • BL40p • DL360 G3, DL360 G2, DL360 • DL380 G3, DL380 G2, DL380 • DL560 • DL580 G2, DL580 • DL740 • DL760 G2, DL760 • ML370 G3, ML370 G2, ML370 • ML530 G2, ML530 • ML570 G2, ML570 • ML750 <p>* Note: Servers can be used homogeneously or heterogeneously within a cluster.</p>	<p>SmartStart Ver: 6.4 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 6.4)</p>	<p>FCA2101 Driver: 5-4.82.a16 FW: 3.91a1 BIOS: 1.63a1</p> <p>FCA2214 + Driver: 8.2.0.73 FW: NA BIOS: 1.34</p> <p>FCA2214DC Driver: 8.2.0.73 FW: NA BIOS: 1.34</p> <p>FCA2404 Driver: 5-4.82.a16 FW: 1.01a2 BIOS: 1.63a1</p> <p>FC Mezzanine card Driver: 8.2.0.73 FW: NA BIOS: 1.34</p> <p>64-bit/33-MHz PCI-to-FC HBA (DS-KGPSA-CB) Driver: 5-4.82.a16 FW: 3.91a1 BIOS: 1.63a1</p> <p>** Note: HBAs must be used homogeneously within a cluster.</p> <p>+ Fibre Channel HBA included in the ProLiant DL380 G3 Packaged Cluster with MSA1000 product</p>	<p>Secure Path Ver: 4.0c for Windows Workgroup Edition Raidisk.sys ver: 3.7.2.240</p>	<p>StorageWorks MSA1000 Storage Controller FW: v4.24</p> <p>Storage EMU: V1.86</p> <p>MSA1000 Support Software CD: 6.51</p>	<p>HP 1GB SAN Switches FW: 2.6.1</p> <ul style="list-style-type: none"> • SAN Switch 16-EL • SAN Switch 8-EL • SAN Switch 8 & 16 • SAN Switch Integrated 32 • SAN Switch Integrated 64 <p>HP 2GB SAN Switches 8/16 ports FW: 3.1.1</p> <ul style="list-style-type: none"> • SAN Switch 2/8 EL • SAN Switch 2/16 EL • SAN Switch 2/16 • MSA SAN Switch 2/8 ++ <p>HP 2GB SAN Switches >32 ports FW: 4.1.1</p> <ul style="list-style-type: none"> • SAN Switch 2/32 • Core Switch 2/64 <p>HP Director and Edge Switches FW: 05.01.00-24</p> <ul style="list-style-type: none"> • Director 2/64 • Director 2/140 • Edge Switch 2/16 • Edge Switch 2/24 • Edge Switch 2/32 <p>Other Switches and Hubs</p> <ul style="list-style-type: none"> • MSA Hub 2/3+ • MSA C8 Switch+ (embedded) <p>+Not supported with BL server line ++ Fibre Channel switch included in the ProLiant DL380 G3 Packaged Cluster with MSA1000 product</p>	<p>Product Page</p> <p>Supporting Documentation</p> <p>MSCS Support Matrix - archive</p> <p>November 2003</p>

Config	Supported Servers *	Server Software	Host Bus Adapters (HBAs) **	Multi-Path Software	Storage Information	Interconnects (Switches) ***	Other
#7 Windows Server 2003, EE	<p>Microsoft certification = 2 nodes</p> <p>HP max supported nodes = 8</p> <p>ProLiant:</p> <ul style="list-style-type: none"> • BL40p • DL360 G3, DL360 G2, DL360 • DL380 G3, DL380 G2, DL380 • DL560 • DL580 G2, DL580 • DL740 • DL760 G2, DL760 • ML370 G3, ML370 G2, ML370 • ML530 G2, ML530 • ML570 G2, ML570 • ML750 <p>* Note: Servers can be used homogeneously or heterogeneously within a cluster.</p>	<p>SmartStart Ver: 6.4 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 6.4)</p>	<p>FCA2101 Driver: 5-4.82.a14 FW: 3.91a1 BIOS: 1.61.a2</p> <p>64-bit/33-MHz PCI to FC HBA Driver: 5-4.82.a14 FW: 3.82a1 BIOS: 1.61a2</p> <p>** Note: HBAs must be used homogeneously within a cluster.</p>	<p>Secure Path Ver: 4.0b for Windows Workgroup Edition Raidisk.sys ver: 3.6.3.674</p>	<p>StorageWorks MSA1000 Storage Controller FW: v2.38</p> <p>Storage EMU: V1.86</p> <p>MSA1000 Support Software CD: 6.31</p>	<p>HP 1GB SAN Switches FW: 2.6.0h</p> <ul style="list-style-type: none"> • SAN Switch 8-EL • SAN Switch 16-EL • SAN Switch 8 & 16 • SAN Switch Integrated 32 • SAN Switch Integrated 64 <p>HP 2GB SAN Switches 8/16 ports FW: 3.0.2k</p> <ul style="list-style-type: none"> • SAN Switch 2/8 EL • SAN Switch 2/16 EL • SAN Switch 2/16 • MSA SAN Switch 2/8 <p>HP 2GB SAN Switches >32 ports FW: 4.0.2b</p> <ul style="list-style-type: none"> • SAN Switch 2/32 EL • Core Switch 2/64 <p>HP Director and Edge Switches FW: 04.01.02-4</p> <ul style="list-style-type: none"> • Director 2/64 • Director 2/140 • Edge Switch 2/16 • Edge Switch 2/24 • Edge Switch 2/32 <p>Other Switches and Hubs</p> <ul style="list-style-type: none"> • MSA Hub 2/3+ • MSA C8 Switch+ (embedded) • FC Storage Hub 7+ <p>+Not supported with BL server line</p>	<p>Product Page</p> <p>Supporting Documentation</p> <p>MSCS Support Matrix - archive</p> <p>June 2003</p>