



HP Cluster Configuration Support Matrix For Microsoft Windows Server 2003, X64 Editions HP StorageWorks EVA 8x00, EVA 6x00, EVA 4x00

Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information	Interconnects (Switches)*	Other
Windows Server 2003, x64 Editions SP1 SP2 R2	<p>Max supported nodes = 8</p> <p>ProLiant</p> <ul style="list-style-type: none"> BL20p G3^^ 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 ML570 G3, ML570 G4 BL460c BL480c BL465c BL680c BL685c <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.</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 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.4)</p>	<p>HBA Family 1 StorPort Driver: 7-2.00a12 FW: 1.91a5 BIOS: 1.71a0 (5.02a1)</p> <ul style="list-style-type: none"> • FCA2404 • FCA2404DC • A7387A • A7388A <p>HBA Family 2 StorPort Driver: 7-2.00a12 FW: 1.91a5 BIOS: 1.71a0 (5.02a1)</p> <ul style="list-style-type: none"> • E-FC Balcony Card ^^ • E-FC Adapter Card ^^^ <p>^^For the BL25p, BL35p, & BL45p use E-FC Balcony Card. ^^^For the BL20p G3 use E-FC Adapter Card</p> <p>HBA Family 3 StorPort Driver: 9.1.3.18 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 4 StorPort Driver: 9.1.3.18 FW: Loaded from Driver BIOS: 1.48</p> <ul style="list-style-type: none"> • HPBALCF105 for BL25p, BL45p <p>HBA Family 5 StorPort Driver: 7-2.00a12 FW: 2.70a5 BIOS: 1.71a0 (5.02a1)</p> <ul style="list-style-type: none"> • FC2142 • FC2242 <p>HBA Family 6 StorPort Driver: 7-2.00a12 FW: 2.70a5 BIOS: 1.71a0 (5.02a1)</p> <ul style="list-style-type: none"> • FC2143 • FC2243 <p>HBA Family 7 StorPort Driver: 7-2.00a12 FW: 2.70a5 BIOS: 3.00a4 (6.00a2)</p> <ul style="list-style-type: none"> • LPe1105 <p>HBA Family 8 StorPort Driver: 9.1.3.18 FW: Loaded from driver BIOS: 1.26 (1.64)</p> <ul style="list-style-type: none"> • FC1143 • FC1243 <p>HBA Family 9 StorPort Driver: 9.1.3.18 FW: Loaded from driver BIOS: 1.26 (1.64)</p>	<p>Windows MPIO DSM for EVA Ver: 2.01.01</p>	<p>StorageWorks 8x00 Enterprise Virtual Array Array Controller Firmware 6.110</p> <p>StorageWorks 6x00 Enterprise Virtual Array Array Controller Firmware 6.110</p> <p>StorageWorks 4x00 Enterprise Virtual Array Array Controller Firmware 6.110</p> <p>CLX EVA for Windows 1.01.01</p> <p>Continuous Access EVA Software Version 2.1</p> <p>Command View Supported: V7.0.x</p>	<p>B-Series StorageWorks SAN Switches (8/16 ports 2GB) FW: 5.3.0d</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: 5.0.5f</p> <ul style="list-style-type: none"> • Core Switch 2/64 <p>StorageWorks SAN Switches (4GB) FW: 5.3.0d</p> <ul style="list-style-type: none"> • 4/8 SAN Switch • 4/16 SAN Switch • 4/32 SAN Switch • 4/32B SAN Switch • 4/64 SAN Switch • 4/256 SAN Director <p>M-Series StorageWorks Director and Edge Switches FW: 09.03.00</p> <p>Director 2/64 Director 2/140 Edge Switch 2/12 Edge Switch 2/24 Edge Switch 2/32</p> <p>C-Series Cisco Switches FW: 3.2(2c)</p> <ul style="list-style-type: none"> • MDS 9120 • MDS 9140 • MDS 9216 • MDS 9506 • MDS 9509 • MDS 9513 <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>March 2008</p>

		<ul style="list-style-type: none"> • QMH2462 <p>HBA Family 10</p> <p>StorPort Driver: 9.1.3.18 FW: Loaded from driver BIOS: 1.16 (1.41)</p> <ul style="list-style-type: none"> • FC1142 • FC1242 <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: Check Microsoft site for hotfixes.</p>				
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		<p>HBA Family 7 StorPort Driver: 7-2.00a12 FW: 2.70a5 BIOS: 3.00a4 (6.00a2)</p> <ul style="list-style-type: none"> • LPe1105 <p>HBA Family 8 StorPort Driver: 9.1.3.18 FW: Loaded from driver BIOS: 1.26 (1.64)</p> <ul style="list-style-type: none"> • FC1143 • FC1243 <p>HBA Family 9 StorPort Driver: 9.1.3.18 FW: Loaded from driver BIOS: 1.26 (1.64)</p> <ul style="list-style-type: none"> • QMH2462 <p>HBA Family 10</p> <p>StorPort Driver: 9.1.3.18 FW: Loaded from driver BIOS: 1.16 (1.41)</p> <ul style="list-style-type: none"> • FC1142 • FC1242 <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: Check Microsoft site for hotfixes.</p>				
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Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information	Interconnects (Switches)*	Other
Windows Server 2003, x64 Editions	<p>Max supported nodes = 8</p> <p>ProLiant</p> <ul style="list-style-type: none"> • BL20p G3^{^^} • 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 • ML570 G3, ML570 G4 • BL460c • BL480c • BL465c • BL685c <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.</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 StorPort Driver: 7-1.20a7 FW: 1.91a5 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • FCA2404 • FCA2404DC • A7387A • A7388A <p>HBA Family 2 StorPort Driver: 7-1.20a7 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, BL35p, & BL45p use E-FC Balcony Card. ^^^For the BL20p G3 use E-FC Adapter Card</p> <p>HBA Family 3 StorPort Driver: 9.1.3.16 FW: NA 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 4 StorPort Driver: 9.1.3.16 FW: N/A BIOS: 1.48</p> <ul style="list-style-type: none"> • HPBALCF105 for BL25p, BL45p <p>HBA Family 5 StorPort Driver: 7-1.20a7 FW: 2.50a6 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • FC2142 • FC2242 <p>HBA Family 6 StorPort Driver: 7-1.20a7 FW: 2.10a10 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • FC2143 • FC2243 <p>HBA Family 7 StorPort Driver: 7-1.20a7 FW: 2.50a8</p>	<p>Windows MPIO DSM for EVA Ver: 2.01.00</p>	<p>StorageWorks 8x00 Enterprise Virtual Array Array Controller Firmware 6.100</p> <p>StorageWorks 6x00 Enterprise Virtual Array Array Controller Firmware 6.100</p> <p>StorageWorks 4x00 Enterprise Virtual Array Array Controller Firmware 6.100</p> <p>CLX EVA for Windows 1.01.01</p> <p>Continuous Access EVA Software Version 2.1</p> <p>Command View Supported: V6.0.x</p>	<p>B-Series StorageWorks SAN Switches (8/16 ports 2GB) FW: 5.2.1b</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: 5.2.1b</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: 09.02.00</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>BIOS: 3.00a4</p> <ul style="list-style-type: none"> • LPe1105 <p>HBA Family 8 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 9 StorPort Driver: 9.1.3.11 FW: Loaded from driver BIOS: 1.26</p> <ul style="list-style-type: none"> • QMH2426 <p>HBA Family 10 StorPort Driver: 9.1.3.16 FW: Loaded from driver BIOS: 1.16</p> <ul style="list-style-type: none"> • FC1142 • FC1242 <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: Check Microsoft site for hotfixes.</p>				July 2007
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Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information	Interconnects (Switches)*	Other
Windows Server 2003, x64 Editions	<p>Max supported nodes = 8</p> <p>ProLiant</p> <ul style="list-style-type: none"> • BL20p G3^{^^} • 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 • ML570 G3, ML570 G4 • BL460c • BL480c • BL465c • BL685c <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.</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</p>	<p>HBA Family 1 StorPort Driver: 7-1.20a7 FW: 1.91a5 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • FCA2404 • FCA2404DC • A7387A • A7388A <p>HBA Family 2 StorPort Driver: 7-1.20a7 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, BL35p, & BL45p use E-FC Balcony Card. ^^^For the BL20p G3 use E-FC Adapter Card</p> <p>HBA Family 3 StorPort Driver: 9.1.3.16 FW: NA 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 4 StorPort Driver: 9.1.3.16 FW: N/A BIOS: 1.48</p> <ul style="list-style-type: none"> • HPBALCF105 for BL25p, BL45p 	<p>Windows MPIO DSM for EVA Ver: 2.01.00</p>	<p>StorageWorks 8000 Enterprise Virtual Array Array Controller Firmware 6.100</p> <p>StorageWorks 6000 Enterprise Virtual Array Array Controller Firmware 6.100</p> <p>StorageWorks 4000 Enterprise Virtual Array Array Controller Firmware 6.100</p> <p>CLX EVA for Windows 1.01.01</p> <p>Continuous Access EVA Software Version 2.1</p> <p>Command View Supported: V6.0.x</p>	<p>B-Series StorageWorks SAN Switches (8/16 ports 2GB) FW: 5.2.1b</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: 5.2.1b</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: 09.02.00</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>	<p>Product Page</p> <p>Supporting Documentation</p> <p>MSCS Support Matrix - archive</p>

	<p>(Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.4)</p>	<p>HBA Family 5 StorPort Driver: 7-1.20a7 FW: 2.50a6 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • FC2142 • FC2242 <p>HBA Family 6 StorPort Driver:7-1.20a7 FW: 2.10a10 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • FC2143 • FC2243 <p>HBA Family 7 StorPort Driver: 7-1.20a7 FW: 2.50a8 BIOS: 3.00a4</p> <ul style="list-style-type: none"> • LPe1105 <p>HBA Family 8 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 9 StorPort Driver: 9.1.3.11 FW: Loaded from driver BIOS: 1.26</p> <ul style="list-style-type: none"> • QMH2426 <p>HBA Family 10 StorPort Driver: 9.1.3.16 FW: Loaded from driver BIOS: 1.16</p> <ul style="list-style-type: none"> • FC1142 • FC1242 <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: Check Microsoft site for hotfixes.</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>May 2007</p>
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Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information	Interconnects (Switches)*	Other
Windows Server 2003, x64 Editions	<p>Max supported nodes = 8</p> <p>ProLiant</p> <ul style="list-style-type: none"> • BL20p G3^{^^^} • 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 • ML570 G3, ML570 G4 • BL460c • BL480c • BL465c • BL685c <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.</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 StorPort Driver: 7-1.20a7 FW: 1.91a5 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • FCA2404 • FCA2404DC • A7387A • A7388A <p>HBA Family 2 StorPort Driver: 7-1.20a7 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, BL35p, & BL45p use E-FC Balcony Card. ^^^For the BL20p G3 use E-FC Adapter Card</p> <p>HBA Family 3 StorPort Driver: 9.1.3.16 FW: NA 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 4 StorPort Driver: 9.1.3.16 FW: N/A BIOS: 1.48</p> <ul style="list-style-type: none"> • HPBALCF105 for BL25p, BL45p <p>HBA Family 5 StorPort Driver: 7-1.20a7 FW: 2.50a6 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • FC2142 • FC2242 <p>HBA Family 6 StorPort Driver: 7-1.20a7 FW: 2.10a10 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • FC2143 • FC2243 <p>HBA Family 7 StorPort Driver: 7-1.20a7 FW: 2.50a8 BIOS: 3.00a4</p> <ul style="list-style-type: none"> • LPe1105 <p>HBA Family 8 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 9 StorPort Driver: 9.1.3.16 FW: Loaded from driver BIOS: 1.26</p> <ul style="list-style-type: none"> • QMH2426 <p>HBA Family 10 StorPort Driver: 9.1.3.16 FW: Loaded from driver BIOS: 1.16</p>	<p>Windows MPIO DSM for EVA Ver: 2.01.00</p>	<p>StorageWorks 8000 Enterprise Virtual Array Array Controller Firmware 6.000</p> <p>StorageWorks 6000 Enterprise Virtual Array Array Controller Firmware 6.000</p> <p>StorageWorks 4000 Enterprise Virtual Array Array Controller Firmware 6.000</p> <p>CLX EVA for Windows 1.01.01</p> <p>Continuous Access EVA Software Version 2.1</p> <p>Command View Supported: V6.x</p>	<p>B-Series StorageWorks SAN Switches (8/16 ports 2GB) 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>March 2007</p>

		<ul style="list-style-type: none">• FC1142• FC1242 <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: Check Microsoft site for hotfixes.</p>				
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Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information	Interconnects (Switches)*	Other
Windows Server 2003, x64 Editions	<p>Max supported nodes = 8</p> <p>ProLiant</p> <ul style="list-style-type: none"> • BL20p G3^{^^} • 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 • ML570 G3, ML570 G4 • BL460c • BL480c • BL465c • BL685c <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.</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 StorPort Driver: 7-1.20a7 FW: 1.91a5 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • FCA2404 • FCA2404DC • A7387A • A7388A <p>HBA Family 2 StorPort Driver: 7-1.20a7 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, BL35p, & BL45p use E-FC Balcony Card. ^^^For the BL20p G3 use E-FC Adapter Card</p> <p>HBA Family 3 StorPort Driver: 9.1.3.16 FW: NA BIOS: 1.48</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 StorPort Driver: 9.1.3.16 FW: N/A BIOS: 1.48</p> <ul style="list-style-type: none"> • HPBALCF105 for BL25p, BL45p <p>HBA Family 5 StorPort Driver: 7-1.20a7 FW: 2.50a6 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • FC2142 • FC2242 <p>HBA Family 6 StorPort Driver: 7-1.20a7 FW: 2.10a10 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • FC2143 • FC2243 <p>HBA Family 7 StorPort Driver: 7-1.11x1 FW: 2.50a8 BIOS: 1.70a3</p> <ul style="list-style-type: none"> • LPe1105 <p>HBA Family 8 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 9 StorPort Driver: 9.1.0.18 FW: Loaded from driver BIOS: 1.16</p> <ul style="list-style-type: none"> • QMH2426 <p>HBA Family 10 StorPort Driver: 9.1.3.16 FW: Loaded from driver BIOS: 1.16</p> <ul style="list-style-type: none"> • FC1142 • FC1242 	<p>Windows MPIO DSM for EVA Ver: 2.00.02</p>	<p>StorageWorks 8000 Enterprise Virtual Array Array Controller Firmware 6.000</p> <p>StorageWorks 6000 Enterprise Virtual Array Array Controller Firmware 6.000</p> <p>StorageWorks 4000 Enterprise Virtual Array Array Controller Firmware 6.000</p> <p>CLX EVA for Windows 1.01.01</p> <p>Continuous Access EVA Software Version 2.1</p> <p>Command View Supported: V6.0</p> <p>Recommended: V6.1</p>	<p>B-Series StorageWorks SAN Switches (8/16 ports 2GB) FW: 3.2.1b</p> <ul style="list-style-type: none"> • 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>Product Page</p> <p>Supporting Documentation</p> <p>MSCS Support Matrix - archive</p> <p>January 2007</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: Check Microsoft site for hotfixes.</p>				
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Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information	Interconnects (Switches)*	Other
Windows Server 2003, x64 Editions	<p>Max supported nodes = 8</p> <p>ProLiant</p> <ul style="list-style-type: none"> • BL20p G3^{^^} • BL25p^{^^^} • BL35p^{^^} • BL45p^{^^^} • DL360 G4, DL360 G5 • DL360 G4p • DL380 G4, DL380 G5 • DL580 G3, DL580 G4 • DL585 • DL385 • ML370 G4, ML370 G5 • ML570 G3, ML570 G4 • BL460c • BL480c <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.</p> <p>^^^Note: Supports the FC Adapter Card BL20p G3</p> <p>^^^Note: Supports the HPBALCF 105</p> <p>Server Software: SmartStart Ver: 7.51 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.4)</p>	<p>HBA Family 1 StorPort Driver: 7-1.11x1 FW: 1.91a1 BIOS: 1.70a3</p> <ul style="list-style-type: none"> • FCA2404 • FCA2404DC • A7387A • A7388A <p>HBA Family 2 StorPort Driver: 7-1.11x1 FW: 1.90a4 BIOS: 1.70a1</p> <ul style="list-style-type: none"> • A7560A(1050EX) <p>HBA Family 3 StorPort Driver: 7-1.11x1 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 4 StorPort Driver: 7-1.11x1 FW: 3.93a0 BIOS: 1.70a3</p> <p>FCA2101 FCA2355</p> <p>HBA Family 5 StorPort Driver: 9.1.0.18 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 6 StorPort Driver: 9.1.0.18 FW: N/A BIOS: 1.48</p> <p>HPBALCF105 for BL25p, BL45p</p> <p>HBA Family 7 StorPort Driver: 7-1.11x1 FW: 2.50a2 BIOS: 1.70a3</p> <p>FC2142 FC2242</p> <p>HBA Family 8 StorPort Driver: 7-1.11x1 FW: 2.50a2 BIOS: 1.70a3</p> <ul style="list-style-type: none"> • FC2143 • FC2243 <p>HBA Family 9 StorPort Driver: 7-1.11x1 FW: 2.50a8</p> <p>LPe1105 QMH2462</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>Windows MPIO DSM for EVA Ver: 2.00.00</p> <p>Windows MPIO DSM for EVA Ver: 1.00.02</p>	<p>StorageWorks 8000 Enterprise Virtual Array Array Controller Firmware 6.000</p> <p>StorageWorks 6000 Enterprise Virtual Array Array Controller Firmware 6.000</p> <p>StorageWorks 4000 Enterprise Virtual Array Array Controller Firmware 6.000</p> <p>HP OpenView Storage Operations Manager Version 1.2</p> <p>CLX EVA for Windows 1.01.01</p> <p>Continuous Access EVA Software Version 2.1</p> <p>Command View V5.0</p>	<p>B-Series StorageWorks SAN Switches (8/16 ports 2GB) FW: 3.2.1</p> <ul style="list-style-type: none"> • MSA SAN Switch 2/8^ • SAN Switch 2/16 <p>FW: 5.1.0</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: 5.03b</p> <ul style="list-style-type: none"> • Core Switch 2/64 <p>StorageWorks SAN Switches (4GB) FW: 5.1.0</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: 08.01.01</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(1)</p> <ul style="list-style-type: none"> • MDS 9120 • MDS 9140 • MDS 9216 • MDS 9506 • MDS 9509 <p>Other Switches and Hubs</p> <p>MSA Hub 2/3^^</p> <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 only.</p>	<p>Product Page</p> <p>Supporting Documentation</p> <p>MSCS Support Matrix - archive</p> <p>June 2006</p>

		<p>*Note 2: Refer to Server QuickSpecs for confirmation on supported HBAs.</p>				
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Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information	Interconnects (Switches)*	Other
Windows Server 2003, x64 Editions	<p>Max Supported nodes = 8</p> <p>ProLiant</p> <ul style="list-style-type: none"> • BL20p G3^^ • BL25p^^^ • BL35p^^ • BL45p^^^ • DL360 G4 • DL360 G4p • DL380 G4 • DL580 G3 • DL585 • DL385 • ML370 G4 • ML570 G3 <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.</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 StorPort Driver: 7-1.11x1 FW: 1.91a1 BIOS: 1.70a3</p> <ul style="list-style-type: none"> • FCA2408 • A7387A • A7388A <p>HBA Family 2 StorPort Driver: 7-1.11x1 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 3 StorPort Driver: 9.1.0.18 FW: NA BIOS: 1.45</p> <ul style="list-style-type: none"> • FCA2214 • FCA2214DC <p>HBA Family 4 StorPort Driver: 9.0.2.16 FW: NA BIOS: 1.45</p> <ul style="list-style-type: none"> • FC Balcony card • FC Mezz card ^ <p>HBA Family 5 StorPort Driver: 9.0.2.16 FW: NA BIOS: 1.48</p> <p>HPBALCF105 for BL25p, BL45p</p> <p>HBA Family 6 StorPort Driver: 7-1.11x1 FW: 2.50a2 BIOS: 1.70a3</p> <ul style="list-style-type: none"> • FC2142SR • FC2242SR DC <p>HBA Family 6 SCSIport Driver: 9.1.0.18 FW: NA BIOS: 1.06</p> <ul style="list-style-type: none"> • FC1142SR • FC1242SR DC <p>HBA Family 7 StorPort Driver: 7-1.11x1 FW: 2.10a7 BIOS: 1.70a3</p> <ul style="list-style-type: none"> • FC2143 • FC2243 DC <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>Windows MPIO DSM for EVA Ver: 2.00.00</p> <p>Windows MPIO DSM for EVA Ver: 1.00.02</p>	<p>StorageWorks 8000 Enterprise Virtual Array Array Controller Firmware 5.100</p> <p>StorageWorks 6000 Enterprise Virtual Array Array Controller Firmware 5.100</p> <p>StorageWorks 4000 Enterprise Virtual Array Array Controller Firmware 5.100</p> <p>HP OpenView Storage Operations Manager Version 1.2</p> <p>Continuous Access EVA Software Version 2.1</p> <p>Command View V5.0</p>	<p>B-Series StorageWorks SAN Switches (8/16 ports 2GB) FW: 3.2.1</p> <ul style="list-style-type: none"> • SAN Switch 2/16 <p>FW: 5.0.3</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: 5.0.3</p> <ul style="list-style-type: none"> • SAN Switch 2/32 • Core Switch 2/64 • SAN Director 2/128 <p>StorageWorks SAN Switches (4GB) FW: 5.0.1d</p> <p>4/8 SAN Switch 4/16 SAN Switch 4/32 SAN Switch 4/256 SAN Director</p> <p>M-Series StorageWorks Director and Edge Switches FW: 08.01.01</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>Product Page</p> <p>Supporting Documentation</p> <p>MSCS Support Matrix - archive</p> <p>March 2006</p>

Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information	Interconnects (Switches)*	Other
Windows Server 2003, x64 Editions	<p>Max Supported nodes = 8</p> <p>ProLiant</p> <ul style="list-style-type: none"> • BL20p G3^{^^} • BL25p^{^^^} • BL35p^{^^} • BL45p^{^^^} • DL360 G4 • DL360 G4p • DL380 G4 • DL580 G3 • DL585 • DL385 • ML370 G4 • ML570 G3 <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.</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 StorPort Driver: 7-1.11a0 FW: 1.91a1 BIOS: 1.70a3</p> <ul style="list-style-type: none"> • FCA2408 • A7387A • A7388A <p>HBA Family 2 StorPort Driver: 7-1.11a0 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 3 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 StorPort Driver: 9.0.2.16 FW: NA BIOS: 1.48</p> <p>HPBALCF105 for BL25p, BL45p</p> <p>HBA Family 5 StorPort Driver: 7-1.11a0 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>Windows MPIO DSM for EVA Ver: 1.00.02</p>	<p>StorageWorks 8000 Enterprise Virtual Array Array Controller Firmware 5.030</p> <p>StorageWorks 6000 Enterprise Virtual Array Array Controller Firmware 5.030</p> <p>StorageWorks 4000 Enterprise Virtual Array Array Controller Firmware 5.030</p> <p>HP OpenView Storage Operations Manager EVA Software Version 1.2</p> <p>Continuous Access EVA Software Version 2.1</p> <p>Command View V4.1</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>Product Page</p> <p>Supporting Documentation</p> <p>MCS Support Matrix - archive</p> <p>November 2005</p>

Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information	Interconnects (Switches)*	Other
Windows Server 2003, x64 Editions	<p>Max Supported nodes = 8</p> <p>ProLiant</p> <ul style="list-style-type: none"> • BL20p G3^{^^} • BL25p^{^^^} • BL35p^{^^} • DL360 G4 • DL360 G4p • DL380 G4 • DL580 G3 • DL585 • DL385 • ML370 G4 • ML570 G3 <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.</p> <p>^^^Note: Supports the FC Adapter Card BL20p G3</p> <p>^^^Note: Supports the HPBALCF 105</p> <p>Server Software: SmartStart Ver: 7.2 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.2)</p>	<p>HBA Family 1</p> <p>StorPort Driver: 7-1.03a10 FW: 1.90a4 BIOS: 1.70a1</p> <ul style="list-style-type: none"> • FCA2404 • FCA2404DC • A7560A <p>HBA Family 2</p> <p>StorPort Driver: 7-1.03a10 FW: 1.90a4 BIOS: 1.70a1</p> <ul style="list-style-type: none"> • A7387A • A7388A <p>HBA Family 3</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</p> <p>StorPort Driver: 9.0.2.16 FW: NA BIOS: 1.48</p> <p>HPBALCF105 for BL25p</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>Windows MPIO DSM for EVA Ver: 1.0</p>	<p>StorageWorks 8000 Enterprise Virtual Array Array Controller Firmware 5.020</p> <p>StorageWorks 6000 Enterprise Virtual Array Array Controller Firmware 5.020</p> <p>StorageWorks 4000 Enterprise Virtual Array Array Controller Firmware 5.020</p> <p>HP OpenView Storage Operations Manager Version 1.2</p> <p>Continuous Access EVA Software Version 2.1</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 • 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>Product Page</p> <p>Supporting Documentation</p> <p>MCS Support Matrix - archive</p>

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