



HP Cluster Configuration Support Matrix For Microsoft Windows Server 2003 X64 EE HP StorageWorks Disk Array XP1024/XP128

Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information	Interconnects (Switches)*	Other
Windows Server 2003, x64 EE	<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: 8.00</p>	<p>HBA Family 1 StorPort Driver: 9.1.3.18 BIOS: 1.26 (1.64) •QMH2462</p> <p>HBA Family 2 StorPort Driver: 7-2.00a12 FW: 2.72a2 BIOS: 3.00a4 (6.00a2) •LPe1105</p> <p>HBA Family 3 StorPort Driver: 9.1.7.17 BIOS: 2.02 (1.73af) •FC1143 •FC1243</p> <p>HBA Family 4 StorPort Driver: 7-2.01a4 FW: 2.72a2 BIOS: 2.01a2 (5.03a0) •FC2143 •FC2243</p> <p>HBA Family 5 StorPort Driver: 9.1.7.17 BIOS: 2.02 (1.73af) •FC1142SR •FC1242SR</p> <p>HBA Family 6 StorPort Driver: 7-2.01a4 FW: 2.72a2 BIOS: 2.01a2 (5.03a0) •FC2142SR •FC2242SR</p> <p>HBA Family 7 StorPort Driver: 7-2.01a4 FW: 2.72a2 BIOS: 2.01a2 (5.03a0) •FCA2404 •FCA2404DC •A7387A •A7388A</p> <p>HBA Family 8 StorPort Driver: 7-2.00a12 FW: 3.93a0 BIOS: 1.70a3 •FCA2101 •FCA2355</p> <p>HBA Family 9 StorPort Driver: 9.1.7.17 BIOS: 1.45 •FCA2214 •FCA2214DC</p> <p>HBA Family 10 StorPort Driver: 9.1.3.18 BIOS: 1.45 •FC Mezz card</p> <p>HBA Family 11 StorPort Driver: 9.1.3.18 BIOS: 1.48 •FC Balcony card</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>HP FF MPIO DSM Ver: 3.00.00</p> <p>Secure Path Ver: 4.0c SP3</p>	<p>HP StorageWorks Disk Array XP1024 Controller Firmware: 21.14.40.00 Minimum Controller Firmware: 21.14.14.00</p> <p>HP StorageWorks Disk Array XP128 Controller Firmware: 21.14.40.00 Minimum Controller Firmware: 21.14.14.00</p> <p>HP StorageWorks Cluster Extension XP: Version 2.08.01</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 (8/16 ports 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 •MDS 9120 •MDS 9140 •MDS 9216 •MDS 9506 •MDS 9509 •MDS 9513 FW: 3.3(1a)</p> <p>*Note: BL30p server not supported with M-Series Director switches.</p>	<p>For additional information on StorPort drivers, we recommend a search of Microsoft's website for the latest StorPort QFE.</p> <p>July 2008</p>

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Windows Server 2003, x64 EE	<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: 9.1.3.18 BIOS: 1.26 (1.64) • QMH2462</p> <p>HBA Family 2 StorPort Driver: 7-2.00a12 FW: 2.70a5 BIOS: 3.00a4 (6.00a2) • LPe1105</p> <p>HBA Family 3 StorPort Driver: 9.1.3.18 BIOS: 1.26 (1.64) • FC1143 • FC1243</p> <p>HBA Family 4 StorPort Driver: 7-2.00a12 FW: 2.70a5 BIOS: 1.71a0 (5.02a1) • FC2143 • FC2243</p> <p>HBA Family 5 StorPort Driver: 9.1.3.18 BIOS: 1.16 (1.41) • FC1142SR • FC1242SR</p> <p>HBA Family 6 StorPort Driver: 7-2.00a12 FW: 2.70a5 BIOS: 1.71a0 (5.02a1) • FC2142SR • FC2242SR</p> <p>HBA Family 7 StorPort Driver: 7-2.00a12 FW: 1.91a5 BIOS: 1.71a0 (5.02a1) • FCA2404 • FCA2404DC • A7387A • A7388A</p> <p>HBA Family 8 StorPort Driver: 7-2.00a12 FW: 3.93a0 BIOS: 1.70a3 • FCA2101 • FCA2355</p> <p>HBA Family 9 StorPort Driver: 9.1.3.18 BIOS: 1.45 • FCA2214 • FCA2214DC • FC Mezz card</p> <p>HBA Family 10 StorPort Driver: 9.1.3.18 BIOS: 1.48 • FC Balcony card</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>HP FF MPIO DSM Ver: 2.00.02</p> <p>Secure Path Ver: 4.0c SP2-5</p> <p>Secure Path Ver: 4.0c SP2-1</p>	<p>HP StorageWorks Disk Array XP1024 Controller Firmware: 21.14.37 Minimum Controller Firmware: 21.14.14</p> <p>HP StorageWorks Disk Array XP128 Controller Firmware: 21.14.37 Minimum Controller Firmware: 21.14.14</p> <p>HP StorageWorks Cluster Extension XP: Version 2.08.01</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 (8/16 ports 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 4/32B • 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>For additional information on StorPort drivers, we recommend a search of Microsoft's website for the latest StorPort QFE.</p> <p>January 2008</p>

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Windows Server 2003, x64 EE	<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: 9.1.0.18 BIOS: 1.39 • QMH2462</p> <p>HBA Family 2 StorPort Driver: 7-1.11x1 FW:2.50a8 BIOS: 1.70a3 • LPe1105</p> <p>HBA Family 3 StorPort Driver: 9.1.3.16 BIOS: 1.41 • FC1143 • FC1243</p> <p>HBA Family 4 StorPort Driver: 7-1.20a7 FW:2.10a10 BIOS: 1.71a0 • FC2143 • FC2243</p> <p>HBA Family 5 StorPort Driver: 9.1.3.16 BIOS: 1.16 • FC1142SR • FC1242SR</p> <p>HBA Family 6 StorPort Driver: 7-1.20a7 FW:2.50a6 BIOS: 1.71a0 • FC2142SR • FC2242SR</p> <p>HBA Family 7 StorPort Driver: 7-1.20a7 FW: 1.91a1 BIOS: 1.71a0 • FCA2404 • FCA2404DC • A7387A • A7388A</p> <p>HBA Family 8 StorPort Driver: 7-1.11x1 FW: 3.93a0 BIOS: 1.70a3 • FCA2101 • FCA2355</p> <p>HBA Family 9 StorPort Driver: 9.1.3.16 BIOS: 1.45 • FCA2214 • FCA2214DC • FC Mezz card</p> <p>HBA Family 10 StorPort Driver: 9.1.3.16 BIOS: 1.48 • FC Balcony card</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>HP FF MPIO DSM Ver: 2.00.01</p> <p>Secure Path Ver: 4.0c SP2-5</p> <p>Secure Path Ver: 4.0c SP2-1</p>	<p>HP StorageWorks Disk Array XP1024 Controller Firmware: 21.14.30 Controller Firmware: 21.13.02</p> <p>HP StorageWorks Disk Array XP128 Controller Firmware: 21.14.30 Controller Firmware: 21.13.02</p> <p>HP StorageWorks Cluster Extension XP: Version 2.07.00</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 (8/16 ports 2Gb) FW: 5.2.0 • SAN Switch 2/8V • SAN Switch 2/16V • SAN Switch 2/16N FF</p> <p>StorageWorks SAN Switches (>32 ports) FW: 5.2.0 • SAN Switch 2/32 • SAN Director 2/128</p> <p>StorageWorks SAN Switches (>32 ports) FW: 5.0.5a • Core Switch 2/64</p> <p>StorageWorks SAN Switches (4Gb) FW: 5.2.0 • SAN Switch 4/8 • SAN Switch 4/16 • SAN Switch 4/32 • SAN Director 4/64 • SAN Director 4/256</p> <p>M-Series StorageWorks Director and Edge Switches FW: 09.00.00 • 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: 3.0(3)</p>	<p>For additional information on StorPort drivers, we recommend a search of Microsoft's website for the latest StorPort QFE.</p> <p>February 2007</p>

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Windows Server 2003, x64 EE	<p>Max supported nodes = 8</p> <p>ProLiant</p> <ul style="list-style-type: none"> • BL20p G3^, BL25p^, BL45p^ • BL35p^^ • DL145, DL145 G2 • DL360 G4, DL360 G4p • DL380 G4 • DL385 • DL580 G3 • DL585, DL585 G2 • ML350 G4, ML350 G4p • 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. Maximum supported nodes = 2.</p>	<p>SmartStart Ver: 7.3</p>	<p>HBA Family 1 StorPort Driver: 7-1.11x1 FW: 2.10a7 BIOS: 1.70a3</p> <ul style="list-style-type: none"> • FC2143 • FC2243 <p>HBA Family 2 StorPort Driver: 7-1.11x1 FW: 2.50a2 BIOS: 1.70a3</p> <ul style="list-style-type: none"> • FC2142SR • FC2242SR <p>HBA Family 3 StorPort Driver: 7-1.11x1 FW: 1.91a1 BIOS: 1.70a3</p> <ul style="list-style-type: none"> • FCA2404 • FCA2404DC • FCA2408 • A7387A • A7388A • A7560A <p>HBA Family 4 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>HBA Family 5 StorPort Driver: 9.1.0.18 FW: n/a BIOS: 1.45</p> <ul style="list-style-type: none"> • FCA2214 • FCA2214DC • FC Blade Mezz card <p>HBA Family 6 StorPort Driver: 9.1.0.18 FW: n/a BIOS: 1.06</p> <ul style="list-style-type: none"> • FC1142SR • FC1242SR <p>HBA Family 7 StorPort Driver: 9.1.0.18 FW: n/a BIOS: 1.45</p> <ul style="list-style-type: none"> • FC Blade 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>HP FF MPIO DSM Ver: 2.00.00</p> <p>HP FF MPIO DSM Ver: 1.00.01</p> <p>Secure Path Ver: 4.0c SP2-5</p> <p>Secure Path Ver: 4.0c SP2-1</p>	<p>HP StorageWorks Disk Array XP1024 Controller Firmware: V21.14.18 Controller Firmware: V21.13.02</p> <p>HP StorageWorks Disk Array XP128 Controller Firmware: V21.14.18 Controller Firmware: V21.13.02</p> <p>HP StorageWorks Cluster Extension XP: Version 2.06.01</p>	<p>B-Series StorageWorks SAN Switches (8/16 ports 2Gb) FW: 3.2.0a or 3.2.1</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: 5.0.3b or 5.1.0</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: 5.0.3b or 5.1.0</p> <ul style="list-style-type: none"> • SAN Switch 4/8 • SAN Switch 4/16 • SAN Switch 4/32 • SAN Director 4/256 <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 2/16 • 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 FW: 2.1(2b) <ul style="list-style-type: none"> • MDS 9020 FW: 2.1(2) 	<p>For additional information on StorPort drivers, we recommend a search of Microsoft's website for the latest StorPort QFE.</p> <p>May 2006</p>