



HP Cluster Configuration Support Matrix For Microsoft Windows 2000 Advanced Server HP StorageWorks Disk Array XP1024/XP128

Config	Supported Servers*	Host Bus Adapters (HBAs)**	Multi Path Software	Storage Information	Interconnects (Switches)	Other
Windows 2000 Advanced Server, Service Pack 4	<p>W2K, SP4 supported nodes = 2</p> <p>ProLiant</p> <ul style="list-style-type: none"> • BL20p G2^, BL20p G3^, BL20p G4^, BL25p^, BL45p^ • BL40p • BL30p^^, 35p^^ • DL360 G3, DL360 G4 • DL380 G3, DL380 G4, DL380 G4p, DL380 G5 • DL385 • DL560 • DL580, DL580 G2, DL580 G3, DL580 G4 • DL585, DL585 G2 • DL740 • DL760, DL760 G2 • ML370 G3, ML370 G4, ML370 G5 • 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: 7.3</p>	<p>HBA Family 1 SCSI mini-port Driver: 5-5.30a2 FW: 1.91a5 BIOS: 1.71a0 (5.02a1)</p> <ul style="list-style-type: none"> • FCA2404 • FCA2404DC <p>HBA Family 2 SCSI mini-port Driver: 5-5.30a2 FW: 1.91a5 BIOS: 1.71a0 (5.02a1)</p> <ul style="list-style-type: none"> • A7387A • A7388A <p>HBA Family 3 SCSI mini-port Driver: 5-5.30a2 FW: 3.93a0 BIOS: 1.70a3</p> <ul style="list-style-type: none"> • FCA2101 • FCA2355 <p>HBA Family 4 SCSI mini-port Driver: 9.1.3.11 BIOS: 1.45</p> <ul style="list-style-type: none"> • FCA2214 • FCA2214DC • FC Mezz card <p>HBA Family 5 SCSI mini-port Driver: 9.1.3.11 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>HP FF MPIO DSM Ver: 3.00.00</p> <p>Secure Path Ver: 4.0c SP3</p>	<p>HP StorageWorks Disk Array XP1024 Recommended Controller Firmware: 21.14.40.00/00 Minimum Controller Firmware: 21.14.14.00/00</p> <p>HP StorageWorks Disk Array XP128 Recommended Controller Firmware: 21.14.37.00/00 Minimum Controller Firmware: 21.14.14.00/00</p>	<p>B-Series StorageWorks SAN Switches (8/16 ports 2Gb) FW: 3.2.1c</p> <ul style="list-style-type: none"> • MSA SAN Switch 2/8 • SAN Switch 2/16 <p>StorageWorks SAN Switches (>32 ports 2Gb) FW: 5.3.1a</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: 5.3.1a</p> <ul style="list-style-type: none"> • SAN Switch 2/32 • 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>M-Series StorageWorks Director and Edge Switches FW: 09.06.02</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: 3.3(1a)</p> <p>*Note: BL30p, BL35p servers not supported with M-Series director class switches.</p>	July 2008

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Windows 2000 Advanced Server, Service Pack 4	<p>W2K, SP4 supported nodes = 2</p> <p>ProLiant</p> <ul style="list-style-type: none"> • BL20p G2^, BL20p G3^, BL20p G4^, BL25p^, BL45p^ • BL40p • BL30p^^, 35p^^ • DL360 G3, DL360 G4 • DL380 G3, DL380 G4, DL380 G4p, DL380 G5 • DL385 • DL560 • DL580, DL580 G2, DL580 G3, DL580 G4 • DL585, DL585 G2 • DL740 • DL760, DL760 G2 • ML370 G3, ML370 G4, ML370 G5 • 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: 7.3</p>	<p>HBA Family 1 SCSI mini-port Driver: 5-5.30a2 FW: 1.91a5 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • FCA2404 • FCA2404DC <p>HBA Family 2 SCSI mini-port Driver: 5-5.30a2 FW: 1.91a5 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • A7387A • A7388A <p>HBA Family 3 SCSI mini-port Driver: 5-5.30a2 FW: 3.93a0 BIOS: 1.70a3</p> <ul style="list-style-type: none"> • FCA2101 • FCA2355 <p>HBA Family 4 SCSI mini-port Driver: 9.1.3.11 BIOS: 1.45</p> <ul style="list-style-type: none"> • FCA2214 • FCA2214DC • FC Mezz card <p>HBA Family 5 SCSI mini-port Driver: 9.1.3.11 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>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: 21.14.37.00/00 Controller Firmware: 21.14.14.00/00</p> <p>HP StorageWorks Disk Array XP128 Controller Firmware: 21.14.37.00/00 Controller Firmware: 21.14.14.00/00</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 (8/16 ports 2Gb) FW: 5.3.0d</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: 5.3.0d</p> <ul style="list-style-type: none"> • SAN Switch 2/32 • 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>M-Series StorageWorks Director and Edge Switches FW: 09.03.00</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: 3.2(2c)</p> <p>*Note: BL30p, BL35p servers not supported with M-Series director class switches.</p>	January 2008

Config	Supported Servers*	Host Bus Adapters (HBAs)**	Multi Path Software	Storage Information	Interconnects (Switches)	Other
Windows 2000 Advanced Server, Service Pack 4	<p>W2K, SP4 supported nodes = 2</p> <p>ProLiant</p> <ul style="list-style-type: none"> • BL20p G2^, BL20p G3^, BL20p G4^, BL25p^, BL45p^ • BL40p • BL30p^^, 35p^^ • DL360 G3, DL360 G4 • DL380 G3, DL380 G4, DL380 G4p, DL380 G5 • DL385 • DL560 • DL580, DL580 G2, DL580 G3, DL580 G4 • DL585, DL585 G2 • DL740 • DL760, DL760 G2 • ML370 G3, ML370 G4, ML370 G5 • 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: 7.3</p>	<p>HBA Family 1 SCSI mini-port Driver: 5-5.30a2 FW: 1.91a5 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • FCA2404 • FCA2404DC <p>HBA Family 2 SCSI mini-port Driver: 5-5.30a2 FW: 1.91a5 BIOS: 1.71a0</p> <ul style="list-style-type: none"> • A7387A • A7388A <p>HBA Family 3 SCSI mini-port Driver: 5-5.20a10 FW: 3.93a0 BIOS: 1.70a3</p> <ul style="list-style-type: none"> • FCA2101 • FCA2355 <p>HBA Family 4 SCSI mini-port Driver: 9.1.3.11 BIOS: 1.45</p> <ul style="list-style-type: none"> • FCA2214 • FCA2214DC • FC Mezz card <p>HBA Family 5 SCSI mini-port Driver: 9.1.3.11 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>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: 21.14.30.00/00 Controller Firmware: 21.13.02.00/00</p> <p>HP StorageWorks Disk Array XP128 Controller Firmware: 21.14.30.00/00 Controller Firmware: 21.13.02.00/00</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 (8/16 ports 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: 5.0.5 or 5.0.5a</p> <ul style="list-style-type: none"> • Core Switch 2/64 <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>	February 2007

Config	Supported Servers*	Host Bus Adapters (HBAs)**	Multi Path Software	Storage Information	Interconnects (Switches)	Other
Windows 2000 Advanced Server, Service Pack 4	<p>W2K, SP4 supported nodes = 2</p> <p>ProLiant</p> <ul style="list-style-type: none"> • BL20p G2^, BL20p G3^, BL25p^, BL45p^ • BL40p • BL30p^^, 35p^^ • DL360 G3, DL360 G4 • DL380 G3, DL380 G4, DL380 G4p • 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: 7.3</p>	<p>HBA Family 1 SCSI mini-port Driver: 5-5.10a10 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> <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> <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: 9.0.0.13 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>Secure Path Ver: 4.0c SP1 Hpap.sys ver: 3.1.130.0</p> <p>Secure Path Ver: 4.0c SP2 Hpap.sys ver: 3.2.130.0</p>	<p>HP StorageWorks Disk Array XP1024 Controller Firmware: fw: 21.13.02.00/00</p> <p>HP StorageWorks Disk Array XP128 Controller Firmware: fw: 21.13.02.00/00</p> <p>HP StorageWorks Cluster Extension XP: 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: 2.1.1a</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>	

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Windows 2000 Advanced Server, Service Pack 4	<p>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> <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> <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> <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: 1.43 or 1.45 (recommended)</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>Secure Path Ver: 4.0c SP1 Raidisk.sys ver: 3.7.2.460</p>	<p>HP StorageWorks Disk Array XP1024 Controller Firmware: fw: 21.08.23.00/00</p> <p>HP StorageWorks Disk Array XP128 Controller Firmware: fw: 21.08.23.00/00</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>	September 2004

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Windows 2000 Advanced Server, Service Pack 4	<p>Max supported nodes = 2</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 • 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>FCA2355 Driver: 5-4.82.a16 FW: 3.91a1 BIOS: 1.63a1</p> <p>FCA2404 Driver: 5-4.82.a16 FW: 1.01a2 BIOS: 1.63a1</p> <p>FCA2404DC Driver: 5-4.82.a16 FW: 1.01a2 BIOS: 1.63a1</p> <p>FCA2408 Driver: 5-4.82.a16 FW: 1.01a2 BIOS: 1.63a1</p> <p>** Note: HBAs must be used homogeneously within a cluster</p>	<p>Auto Path XP Ver: 2.01</p>	<p>HP StorageWorks Disk Array XP1024 Controller Firmware: V21.05.06</p> <p>HP StorageWorks Disk Array XP128 Controller Firmware: V21.05.06</p>	<p>HP 1GB SAN Switches FW: 2.6.2 or 2.6.1c</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: 3.1.2 or 3.1.1c</p> <ul style="list-style-type: none"> •SAN Switch 2/8 EL •SAN Switch 2/16 EL •SAN Switch 2/16 <p>HP 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 	