



HP Cluster Configuration Support Matrix

For Microsoft Windows 2000 Advanced Server & HP StorageWorks MA8000/EMA12000/EMA16000

Config	Supported Servers*	Server Software	Host Bus Adapters (HBAs)**	Multi Path Software	Storage Information	Interconnects (Switches)	Other
#1 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 • ML530 G2, ML530 • ML570 G2, ML570 • ML750 <p>* Note: Servers can be used homogeneously or heterogeneously within a cluster.</p>	<p>SmartStart Ver: 7.3 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.3)</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>HBA Family 4 Driver: 5-4.82.a16 FW: 3.91a1 BIOS: 1.63a1</p> <ul style="list-style-type: none"> • 64-bit/33-MHz PCI-to-FC HBA (DS-KGPSA-CB) <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 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 MA8000/EMA12000 (HSG80) Storage Controller Software FW: 8.8-2 SW: v8.7+ GeoCluster: Yes</p> <p>HSG Element Manager Software: v1.0f</p>	<p>StorageWorks SAN Switches (1GB) FW: 2.6.2c</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>FW: 2.6.2c</p> <ul style="list-style-type: none"> • SAN Switch 2/8 EL <p>StorageWorks SAN Switches (8/16 ports 2GB) FW: 3.2.0</p> <ul style="list-style-type: none"> • SAN Switch 2/8 EL • SAN Switch 2/16 EL • SAN Switch 2/16 <p>StorageWorks SAN Switches (>32 ports) FW: 4.4.0</p> <ul style="list-style-type: none"> • SAN Switch 2/32 • Core Switch 2/64 <p>StorageWorks Director and Edge Switches FW: 06.02.00-22</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: 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>MSCS Support Matrix - archive</p> <p style="text-align: right;">June 2005</p>

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<p>#2</p> <p>Windows 2000 Advanced Server</p> <p>Service Pack 4</p>	<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 • ML530 G2, ML530 • ML570 G2, ML570 • ML750 <p>* Note: Servers can be used homogeneously or heterogeneously within a cluster.</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>HBA Family 4 Driver: 5-4.82.a16 FW: 3.91a1 BIOS: 1.63a1</p> <ul style="list-style-type: none"> • 64-bit/33-MHz PCI-to-FC HBA (DS-KGPSA-CB) <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 MA8000/EMA12000 (HSG80) Storage Controller Software FW: 8.7-3 SW: v8.7+ GeoCluster: Yes</p> <p>HSG Element Manager Software: v1.0f</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 <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>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
#3 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 • 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 Smart Start 5.5 and then apply PSP 6.4)</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>HBA Family 4 Driver: 5-4.82.a16 FW: 3.91a1 BIOS: 1.63a1</p> <ul style="list-style-type: none"> • 64-bit/33-MHz PCI-to-FC HBA (DS-KGPSA-CB) <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 MA8000/EMA12000 (HSG80) Storage Controller Software FW: 8.7-3 SW: v8.7+ GeoCluster: Yes</p> <p>HSG Element Manager Software: v1.0f</p>	<p>StorageWorks SAN Switches (1GB) 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>StorageWorks SAN Switches (8/16 ports 2GB) 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 <p>StorageWorks SAN Switches (>32 ports) FW: 4.1.1 or 4.1.2b</p> <ul style="list-style-type: none"> • SAN Switch 2/32 • Core Switch 2/64 <p>StorageWorks 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>Product Page</p> <p>Supporting Documentation</p> <p>MSCS Support Matrix - archive</p>

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Config	Supported Servers *	Server Software	Host Bus Adapters (HBAs) **	Multi-Path Software	Storage Information	Interconnects (Switches) ***	Other
#4 Windows 2000 Advanced Server Service Pack 3&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 • 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 Smart Start 5.5 and then apply PSP 6.4)</p>	<p>FCA2101 Driver: 5-4.82.a16 FW: 3.91a1 BIOS: 1.63a1</p> <p>FC Mezzanine card Driver: 8.2.0.72 FW: NA BIOS: 1.33</p> <p>64-bit/33-MHz PCI to FC HBA Driver: 5-4.82.a16 FW: 3.91a1 BIOS: 1.63a1</p> <p>** Note: HBAs must be used homogeneously within a cluster.</p>	<p>Secure Path Ver: 4.0b Raidisk.sys ver: 3.6.2.673</p>	<p>StorageWorks MA8000/EMA12000 (HSG80) Storage Controller Software FW: 8.7-3 SW: v8.7 GeoCluster: Yes</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 <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>Product Page</p> <p>Supporting Documentation</p> <p>MSCS Support Matrix - archive</p> <p>June 2003</p>