



## HP Cluster Configuration Support Matrix For Microsoft Windows 2000 Advanced Server HP StorageWorks Disk Array XP512/XP48

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"> <li>• BL20p G2^, BL20p G3^, BL25p^, BL45p^</li> <li>• BL40p</li> <li>• BL30p^^, BL35p^^</li> <li>• DL360 G3, DL360 G4, DL360 G4p</li> <li>• DL380 G3, DL380 G4</li> <li>• DL385</li> <li>• DL560</li> <li>• DL580, DL580 G2, DL580 G3</li> <li>• DL585</li> <li>• DL740</li> <li>• DL760, DL760 G2</li> <li>• ML370 G3, ML370 G4</li> <li>• ML530, ML530 G2</li> <li>• ML570, ML570 G2, ML570 G3</li> <li>• ML750</li> </ul> <p><b>*Note:</b> Servers can be used homogeneously or heterogeneously within a cluster.</p> <p><b>*Note:</b> Supports the FC Mezzanine card only.</p> <p><b>**Note:</b> Supports the FC Balcony card only. Maximum supported nodes = 2 for W2K &amp; WS03.</p> <p><b>Server Software:</b> <a href="#">SmartStart</a> Ver: 7.3</p>	<p><b>HBA Family 1</b> SCSI mini-port Driver: 5-5.30a2 FW: 1.91a5 BIOS: <b>1.71a0 (5.02a1)</b></p> <ul style="list-style-type: none"> <li>• <a href="#">FCA2404</a></li> <li>• <a href="#">FCA2404DC</a></li> </ul> <p><b>HBA Family 2</b> SCSI mini-port Driver: 5-5.30a2 FW: 1.91a5 BIOS: <b>1.71a0 (5.02a1)</b></p> <ul style="list-style-type: none"> <li>• <a href="#">A7387A</a></li> <li>• <a href="#">A7388A</a></li> </ul> <p><b>HBA Family 3</b> SCSI mini-port Driver: 5-5.30a2 FW: 3.93a0 BIOS: 1.70a3</p> <ul style="list-style-type: none"> <li>• <a href="#">FCA2101</a></li> <li>• <a href="#">FCA2355</a></li> </ul> <p><b>HBA Family 4</b> SCSI mini-port Driver: 9.1.3.11 FW: Loaded from driver BIOS: 1.45</p> <ul style="list-style-type: none"> <li>• <a href="#">FCA2214</a></li> <li>• <a href="#">FCA2214DC</a></li> <li>• <a href="#">FC Mezz card</a></li> </ul> <p><b>HBA Family 5</b> SCSI mini-port Driver: 9.1.3.11 FW: Loaded from driver BIOS: 1.48</p> <ul style="list-style-type: none"> <li>• <a href="#">FC Balcony card</a></li> </ul> <p><b>*Note 1:</b> 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><b>*Note 2:</b> Refer to Server QuickSpecs for confirmation on supported HBAs</p>	<p><a href="#">Secure Path</a> Ver: 4.0c SP2-1</p>	<p><a href="#">HP StorageWorks Disk Array XP512</a> <b>Controller Firmware:</b> 01.19.99.00/08</p> <p><a href="#">HP StorageWorks Disk Array XP48</a> <b>Controller Firmware:</b> 01.19.99.00/08</p>	<p><b>B-Series</b> StorageWorks SAN Switches (8/16 ports 2Gb) <b>FW: 3.2.1c</b></p> <ul style="list-style-type: none"> <li>• <a href="#">MSA SAN Switch 2/8</a></li> <li>• <a href="#">SAN Switch 2/16</a></li> </ul> <p>StorageWorks SAN Switches (8/16 ports 2Gb) <b>FW: 5.3.1a</b></p> <ul style="list-style-type: none"> <li>• <a href="#">SAN Switch 2/8V</a></li> <li>• <a href="#">SAN Switch 2/16V</a></li> <li>• <a href="#">SAN Switch 2/16N FF</a></li> </ul> <p>StorageWorks SAN Switches (&gt;32 ports ) <b>FW: 5.3.1a</b></p> <ul style="list-style-type: none"> <li>• <a href="#">SAN Switch 2/32</a></li> <li>• <a href="#">SAN Director 2/128</a></li> </ul> <p>StorageWorks SAN Switches (&gt;32 ports ) <b>FW: 5.0.5f</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Core Switch 2/64</a></li> </ul> <p><b>M-Series</b> StorageWorks Director and Edge Switches <b>FW: 09.06.02</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Director 2/64</a></li> <li>• <a href="#">Director 2/140</a></li> <li>• <a href="#">Edge Switch 2/12</a></li> <li>• <a href="#">Edge Switch 2/24</a></li> <li>• <a href="#">Edge Switch 2/32</a></li> </ul> <p><b>C-Series</b> Cisco Switches <b>FW: 3.3(1a)</b></p> <ul style="list-style-type: none"> <li>• <a href="#">MDS 9120</a></li> <li>• <a href="#">MDS 9140</a></li> <li>• <a href="#">MDS 9216</a></li> <li>• <a href="#">MDS 9506</a></li> <li>• <a href="#">MDS 9509</a></li> </ul> <p><b>*Note:</b> BL30p server s not supported 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"> <li>• BL20p G2^, BL20p G3^, BL25p^, BL45p^</li> <li>• BL40p</li> <li>• BL30p^^, BL35p^^</li> <li>• DL360 G3, DL360 G4, DL360 G4p</li> <li>• DL380 G3, DL380 G4</li> <li>• DL385</li> <li>• DL560</li> <li>• DL580, DL580 G2, DL580 G3</li> <li>• DL585</li> <li>• DL740</li> <li>• DL760, DL760 G2</li> <li>• ML370 G3, ML370 G4</li> <li>• ML530, ML530 G2</li> <li>• ML570, ML570 G2, ML570 G3</li> <li>• ML750</li> </ul> <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 &amp; WS03.</p> <p><b>Server Software:</b> SmartStart Ver: 7.3</p>	<p><b>HBA Family 1</b> SCSI mini-port Driver: 5-5.10a10 FW: 1.90a4 BIOS: 1.70a1</p> <ul style="list-style-type: none"> <li>•FCA2404</li> <li>•FCA2404DC</li> </ul> <p><b>HBA Family 2</b> SCSI mini-port Driver: 5-5.10a10 FW: 1.90a4 BIOS: 1.70a1</p> <ul style="list-style-type: none"> <li>•A7387A</li> <li>•A7388A</li> </ul> <p><b>HBA Family 3</b> 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"> <li>•FCA2101</li> <li>•FCA2355</li> </ul> <p><b>HBA Family 4</b> 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"> <li>•FCA2214</li> <li>•FCA2214DC</li> <li>•FC Mezz card^</li> </ul> <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><b>HBA Family 5</b> 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"> <li>•FC Balcony card</li> </ul> <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><a href="#">Secure Path</a> Ver: 4.0c SP1 Hpap.sys ver: 3.1.130.0</p> <p><a href="#">Secure Path</a> Ver: 4.0c SP2 Hpap.sys ver: 3.2.130.0</p>	<p><a href="#">HP StorageWorks Disk Array XP512</a> <b>Controller Firmware:</b> 01.19.91.00/00</p> <p><a href="#">HP StorageWorks Disk Array XP48</a> <b>Controller Firmware:</b> 01.19.91.00/00</p> <p><a href="#">HP StorageWorks Cluster Extension XP</a> version 2.05.01</p>	<p><b>B-Series</b> StorageWorks SAN Switches (8/16 ports 2GB) FW: 3.2.0 or 3.2.0a</p> <ul style="list-style-type: none"> <li>•SAN Switch 2/8V</li> <li>•MSA SAN Switch 2/8 ++</li> <li>•SAN Switch 2/16</li> <li>•SAN Switch 2/16V</li> <li>•SAN Switch 2/16N FF</li> </ul> <p>StorageWorks SAN Switches (&gt;32 ports ) FW: 4.4.0b or 4.4.0c</p> <ul style="list-style-type: none"> <li>•SAN Switch 2/32</li> <li>•Core Switch 2/64</li> <li>•SAN Director 2/128</li> </ul> <p><b>M-Series</b> StorageWorks Director and Edge Switches FW: 06.02.00-22 or 07.00.00-84</p> <ul style="list-style-type: none"> <li>•Director 2/64</li> <li>•Director 2/140</li> <li>•Edge Switch 2/12</li> <li>•Edge Switch 2/24</li> <li>•Edge Switch 2/32</li> </ul> <p><b>C-Series</b> Cisco Switches FW: 2.1.1a</p> <ul style="list-style-type: none"> <li>•MDS 9120</li> <li>•MDS 9140</li> <li>•MDS 9216</li> <li>•MDS 9506</li> <li>•MDS 9509</li> </ul> <p>*Note: BL30p server s not supported M-Series director class switches.</p>	June 2005

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"> <li>• BL20p G2^, BL20p G3^</li> <li>• BL40p</li> <li>• BL30p^^</li> <li>• DL360 G3, DL360 G4</li> <li>• DL380 G3, DL380 G4</li> <li>• DL560</li> <li>• DL580, DL580 G2</li> <li>• DL585</li> <li>• DL740</li> <li>• DL760, DL760 G2</li> <li>• ML370 G3, ML370 G4</li> <li>• ML530, ML530 G2</li> <li>• ML570, ML570 G2</li> <li>• ML750</li> </ul> <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 &amp; WS03.</p> <p><b>Server Software:</b>  <b>SmartStart</b>  <b>Ver: 7.1</b>            (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.1)</p>	<p><b>HBA Family 1</b>  <b>SCSI mini-port Driver:</b> 5-5.10a10  <b>FW:</b> 1.81a2  <b>BIOS:</b> 1.70a1</p> <ul style="list-style-type: none"> <li>• <a href="#">FCA2404</a></li> <li>• <a href="#">FCA2404DC</a></li> </ul> <p><b>HBA Family 2</b>  <b>SCSI mini-port Driver:</b> 5-5.10a10  <b>FW:</b> 1.81a3  <b>BIOS:</b> 1.70a1</p> <ul style="list-style-type: none"> <li>• <a href="#">A7387A</a></li> <li>• <a href="#">A7388A</a></li> </ul> <p><b>HBA Family 3</b>  <b>SCSI mini-port Driver:</b> 5-4.82.a16  <b>FW:</b> 3.91a1  <b>BIOS:</b> 1.63a1</p> <p><b>SCSI mini-port Driver:</b> 5-5.10a10  <b>FW:</b> 3.92a2  <b>BIOS:</b> 1.70a1</p> <ul style="list-style-type: none"> <li>• <a href="#">FCA2101</a></li> <li>• <a href="#">FCA2355</a></li> </ul> <p><b>HBA Family 4</b>  <b>SCSI mini-port Driver:</b> 9.0.0.13  <b>FW:</b> n/a  <b>BIOS:</b> 1.34</p> <p><b>SCSI mini-port Driver:</b> 8.2.0.73  <b>FW:</b> n/a  <b>BIOS:</b> 1.34</p> <ul style="list-style-type: none"> <li>• <a href="#">FCA2214</a></li> <li>• <a href="#">FCA2214DC</a></li> <li>• <a href="#">FC Mezz card^</a></li> </ul> <p>^For BL20p G3: <b>SCSI mini-port Driver:</b> 9.0.1.10  <b>FW:</b> n/a  <b>BIOS:</b> 1.45</p> <p><b>HBA Family 5</b>  <b>SCSI mini-port Driver:</b> 9.0.0.14  <b>FW:</b> n/a  <b>BIOS:</b> 1.43 or 1.45 (recommended)</p> <ul style="list-style-type: none"> <li>• <a href="#">FC Balcony card</a></li> </ul> <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><a href="#">Secure Path</a>  <b>Ver:</b> 4.0c SP1  <b>Hpap.sys ver:</b> 3.1.130.0</p>	<p><a href="#">HP StorageWorks Disk Array XP512</a>  <b>Controller Firmware:</b> 01.19.51.00/00</p> <p><a href="#">HP StorageWorks Disk Array XP48</a>  <b>Controller Firmware:</b> 01.19.51.00/00</p>	<p><b>B-Series</b>            StorageWorks SAN Switches (8/16 ports 2GB)  <b>FW:</b> 3.1.3a or 3.1.3</p> <ul style="list-style-type: none"> <li>• <a href="#">SAN Switch 2/8V</a></li> <li>• <a href="#">MSA SAN Switch 2/8 ++</a></li> <li>• <a href="#">SAN Switch 2/16</a></li> <li>• <a href="#">SAN Switch 2/16V</a></li> <li>• <a href="#">SAN Switch 2/16N FF</a></li> </ul> <p>StorageWorks SAN Switches (&gt;32 ports )  <b>FW:</b> 4.2.2a or 4.2.2</p> <ul style="list-style-type: none"> <li>• <a href="#">SAN Switch 2/32</a></li> <li>• <a href="#">Core Switch 2/64</a></li> <li>• <a href="#">SAN Director 2/128</a></li> </ul> <p><b>M-Series</b>            StorageWorks Director and Edge Switches  <b>FW:</b> 06.02.00-22 or 06.01.00-18</p> <ul style="list-style-type: none"> <li>• <a href="#">Director 2/64</a></li> <li>• <a href="#">Director 2/140</a></li> <li>• <a href="#">Edge Switch 2/12</a></li> <li>• <a href="#">Edge Switch 2/24</a></li> <li>• <a href="#">Edge Switch 2/32</a></li> </ul> <p><b>C-Series</b>            Cisco Switches  <b>FW:</b> 1.3.4a</p> <ul style="list-style-type: none"> <li>• <a href="#">MDS 9120</a></li> <li>• <a href="#">MDS 9140</a></li> <li>• <a href="#">MDS 9216</a></li> <li>• <a href="#">MDS 9506</a></li> <li>• <a href="#">MDS 9509</a></li> </ul> <p>*Note: BL30p server supported with B-Series switches &amp; M-Series Edge Switch 2/12, 2/24 only.</p>	September 2004

Config	Supported Servers*	Server Software	Host Bus Adapters (HBAs)**	Multi Path Software	Storage Information	Interconnects (Switches)	Other
Windows 2000 Advanced Server, Service Pack 4	<p>Max supported nodes = 2</p> <p>ProLiant</p> <ul style="list-style-type: none"> <li>• BL20p G2^</li> <li>• BL40p</li> <li>• DL360, DL360 G2, DL360 G3</li> <li>• DL380, DL380 G2, DL380 G3</li> <li>• DL560</li> <li>• DL580, DL580 G2</li> <li>• DL740</li> <li>• DL760, DL760 G2</li> <li>• ML370 G3</li> <li>• ML530, ML530 G2</li> <li>• ML570, ML570 G2</li> <li>• ML750</li> </ul> <p>* Note: Servers can be used homogeneously or heterogeneously within a cluster.</p> <p>^ Note: Supports the FC Mezzanine card only.</p>	<p><a href="#">SmartStart</a> 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"> <li>• <a href="#">FCA2101</a></li> <li>• <a href="#">FCA2355</a></li> </ul> <p>HBA Family 2 Driver: 5-4.82.a16 FW: 1.01a2 BIOS: 1.63a1</p> <ul style="list-style-type: none"> <li>• <a href="#">FCA2408</a></li> <li>• <a href="#">FCA2404</a></li> <li>• <a href="#">FCA2404DC</a></li> </ul> <p>HBA Family 3 Driver: 8.2.0.73 FW: NA BIOS: 1.34</p> <ul style="list-style-type: none"> <li>• <a href="#">FCA2214</a></li> <li>• <a href="#">FCA2214DC</a></li> <li>• <a href="#">FC Mezz card</a></li> </ul> <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><a href="#">Secure Path</a> Ver: 4.0c-7 <a href="#">Raidisk.sys</a> ver: 3.7.2.240</p>	<p><a href="#">HP StorageWorks Disk Array XP512</a> Controller Firmware: V01.19.03.00/00</p> <p><a href="#">HP StorageWorks Disk Array XP48</a> Controller Firmware: V01.19.03.00/00</p>	<p>HP 1GB SAN Switches FW: 2.6.2 or 2.6.1c</p> <ul style="list-style-type: none"> <li>• <a href="#">SAN Switch 16-EL</a></li> <li>• <a href="#">SAN Switch 8-EL</a></li> <li>• <a href="#">SAN Switch 8 &amp; 16</a></li> <li>• <a href="#">SAN Switch Integrated 32</a></li> <li>• <a href="#">SAN Switch Integrated 64</a></li> </ul> <p>HP 2GB SAN Switches 8/16 ports FW: 3.1.2 or 3.1.1c</p> <ul style="list-style-type: none"> <li>• <a href="#">SAN Switch 2/8 EL</a></li> <li>• <a href="#">SAN Switch 2/16 EL</a></li> <li>• <a href="#">SAN Switch 2/16</a></li> </ul> <p>HP 2GB SAN Switches &gt;32 ports FW: 4.2.0b</p> <ul style="list-style-type: none"> <li>• <a href="#">SAN Switch 2/32</a></li> <li>• <a href="#">Core Switch 2/64</a></li> </ul> <p>HP Director and Edge Switches FW: 05.02.00-13</p> <ul style="list-style-type: none"> <li>• <a href="#">Director 2/64</a></li> <li>• <a href="#">Director 2/140</a></li> <li>• <a href="#">Edge Switch 2/16</a></li> <li>• <a href="#">Edge Switch 2/24</a></li> <li>• <a href="#">Edge Switch 2/32</a></li> <li>• <a href="#">Edge Switch 2/12</a></li> </ul> <p>HP C-Series Switches FW: 1.2.1a and 1.2.1b</p> <ul style="list-style-type: none"> <li>» <a href="#">Cisco MDS 9506</a></li> <li>» <a href="#">Cisco MDS 9509</a></li> <li>» <a href="#">Cisco MDS 9216</a></li> <li>» <a href="#">Cisco MDS 9120</a></li> <li>» <a href="#">Cisco MDS 9140</a></li> </ul>	May2004

_ Config	Supported Servers*	Server Software	Host Bus Adapters (HBAs)**	Multi Path Software	Storage Information	Interconnects (Switches)	Other
<p>Windows 2000 Advance Server, Service Pack 4</p>	<p>Max supported nodes = 2</p> <p>ProLiant:</p> <ul style="list-style-type: none"> <li>• BL20p G2</li> <li>• BL40p</li> <li>• DL360 G3, DL360 G2, DL360</li> <li>• DL380 G3, DL380 G2, DL380</li> <li>• DL560</li> <li>• DL580 G2, DL580</li> <li>• DL740</li> <li>• DL760 G2, DL760</li> <li>• ML370 G3</li> <li>• ML530 G2, ML530</li> <li>• ML570 G2, ML570</li> <li>• ML750</li> </ul> <p>* Note: Servers can be used homogeneously or heterogeneously within a cluster.</p>	<p><a href="#">SmartStart</a> Ver: 6.4 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 6.4)</p>	<p><a href="#">FCA2101</a> Driver: 5-4.82.a16 FW: 3.91a1 BIOS: 1.63a1</p> <p><a href="#">FCA2355</a> Driver: 5-4.82.a16 FW: 3.91a1 BIOS: 1.63a1</p> <p><a href="#">FCA2404</a> Driver: 5-4.82.a16 FW: 1.01a2 BIOS: 1.63a1</p> <p><a href="#">FCA2404DC</a> Driver: 5-4.82.a16 FW: 1.01a2 BIOS: 1.63a1</p> <p><a href="#">FCA2408</a> Driver: 5-4.82.a16 FW: 1.01a2 BIOS: 1.63a1</p> <p>** Note: HBAs must be used homogeneously within a cluster</p>	<p><a href="#">Auto Path XP</a> Ver: 2.01.00</p>	<p><a href="#">HP StorageWorks Disk Array XP512</a> Controller Firmware: V01.18.48.00/00</p> <p><a href="#">HP StorageWorks Disk Array XP48</a> Controller Firmware: V01.18.48.00/00</p>	<p>HP 1GB SAN Switches FW: 2.6.2 or 2.6.1c</p> <ul style="list-style-type: none"> <li>•<a href="#">SAN Switch 16-EL</a></li> <li>•<a href="#">SAN Switch 8-EL</a></li> <li>•<a href="#">SAN Switch 8 &amp; 16</a></li> <li>•<a href="#">SAN Switch Integrated 32</a></li> <li>•<a href="#">SAN Switch Integrated 64</a></li> </ul> <p>HP 2GB SAN Switches 8/16 ports FW: 3.1.2 or 3.1.1c</p> <ul style="list-style-type: none"> <li>•<a href="#">SAN Switch 2/8 EL</a></li> <li>•<a href="#">SAN Switch 2/16 EL</a></li> <li>•<a href="#">SAN Switch 2/16</a></li> </ul> <p>HP Director and Edge Switches FW: 05.02.00-13</p> <ul style="list-style-type: none"> <li>•<a href="#">Director 2/64</a></li> <li>•<a href="#">Director 2/140</a></li> <li>•<a href="#">Edge Switch 2/16</a></li> <li>•<a href="#">Edge Switch 2/24</a></li> <li>•<a href="#">Edge Switch 2/32</a></li> </ul>	<p>May 2004</p>