



## HP Cluster Configuration Support Matrix

For Microsoft Windows Server 2003, X64 Editions & HP StorageWorks EVA 8000, EVA 6000, EVA 4000

Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information	Interconnects (Switches)*	Other
<p>#1 Windows Server 2003, x64 Editions</p>	<p><b>Max Supported nodes = 8</b></p> <p>ProLiant</p> <ul style="list-style-type: none"> <li>• BL20p G3<sup>^^</sup></li> <li>• BL25p<sup>^^^</sup></li> <li>• BL35p<sup>^^</sup></li> <li>• BL45p<sup>^^^</sup></li> <li>• DL360 G4</li> <li>• DL360 G4p</li> <li>• DL380 G4</li> <li>• DL580 G3</li> <li>• DL585</li> <li>• DL385</li> <li>• ML370 G4</li> <li>• ML570 G3</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.</p> <p><b>^^^Note:</b> Supports the FC Adapter Card BL20p G3</p> <p><b>^^^Note:</b> Supports the HPBALCF 105</p> <p><b>Server Software:</b> TSmartStart Ver: 7.4 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.4)</p>	<p><b>HBA Family 1</b> StorPort Driver: 7-1.11x1 FW: 1.91a1 BIOS: 1.70a3</p> <ul style="list-style-type: none"> <li>• <a href="#">FCA2408</a></li> <li>• <a href="#">A7387A</a></li> <li>• <a href="#">A7388A</a></li> </ul> <p><b>HBA Family 2</b> StorPort Driver: 7-1.11x1 FW: 1.91a2 BIOS: 1.70a3</p> <ul style="list-style-type: none"> <li>• <a href="#">E-FC Balcony Card</a> ^^</li> <li>• <a href="#">E-FC Adapter Card</a> ^^</li> </ul> <p>^^For the BL25p, BL30p, BL35p, &amp; BL45p use E-FC Balcony Card.</p> <p>^^^For the BL20p G3 use E-FC Adapter Card.</p> <p><b>HBA Family 3</b> StorPort Driver: 9.1.0.18 FW: NA BIOS: 1.45</p> <ul style="list-style-type: none"> <li>• <a href="#">FCA2214</a></li> <li>• <a href="#">FCA2214DC</a></li> </ul> <p><b>HBA Family 4</b> StorPort Driver: 9.0.2.16 FW: NA BIOS: 1.45</p> <ul style="list-style-type: none"> <li>• <a href="#">FC Balcony card</a></li> <li>• <a href="#">FC Mezz card</a> ^</li> </ul> <p><b>HBA Family 5</b> StorPort Driver: 9.0.2.16 FW: NA BIOS: 1.48</p> <p><a href="#">HPBALCF105</a> for BL25p, BL45p</p> <p><b>HBA Family 6</b> StorPort Driver: 7-1.11x1 FW: 2.50a2 BIOS: 1.70a3</p> <ul style="list-style-type: none"> <li>• <a href="#">FC2142SR</a></li> <li>• <a href="#">FC2242SR DC</a></li> </ul> <p><b>HBA Family 6</b> SCSIport Driver: 9.1.0.18 FW: NA BIOS: 1.06</p> <ul style="list-style-type: none"> <li>• <a href="#">FC1142SR</a></li> <li>• <a href="#">FC1242SR DC</a></li> </ul> <p><b>HBA Family 7</b> StorPort Driver: 7-1.11x1 FW: 2.10a7 BIOS: 1.70a3</p> <ul style="list-style-type: none"> <li>• <a href="#">FC2143</a></li> <li>• <a href="#">FC2243 DC</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><b>Windows MPIO DSM for EVA</b> Ver: 2.00.00</p> <p><b>Windows MPIO DSM for EVA</b> Ver: 1.00.02</p>	<p><b>StorageWorks 8000 Enterprise Virtual Array</b> Array Controller Firmware 5.100</p> <p><b>StorageWorks 6000 Enterprise Virtual Array</b> Array Controller Firmware 5.100</p> <p><b>StorageWorks 4000 Enterprise Virtual Array</b> Array Controller Firmware 5.100</p> <p><b>HP OpenView Storage Operations Manager</b> Version 1.2</p> <p><b>Continuous Access EVA Software</b> Version 2.1</p> <p><b>Command View</b> V5.0</p>	<p><b>B-Series</b> StorageWorks SAN Switches (8/16 ports 2GB) FW: 3.2.1</p> <ul style="list-style-type: none"> <li>• <a href="#">SAN Switch 2/16</a></li> </ul> <p>FW: 5.0.3</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 ) FW: 5.0.3</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>StorageWorks SAN Switches (4GB ) FW: 5.0.1d</p> <p><a href="#">4/8 SAN Switch</a> <a href="#">4/16 SAN Switch</a> <a href="#">4/32 SAN Switch</a> <a href="#">4/256 SAN Director</a></p> <p><b>M-Series</b> StorageWorks Director and Edge Switches FW: 08.01.01</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 FW: 2.1(2b)</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><a href="#">Product Page</a></p> <p><a href="#">Supporting Documentation</a></p> <p><a href="#">MSCS Support Matrix - archive</a></p> <p>March 2006</p>

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#2 Windows Server 2003, x64 Editions	<p><b>Max Supported nodes = 8</b></p> <p>ProLiant</p> <ul style="list-style-type: none"> <li>• BL20p G3<sup>^^</sup></li> <li>• BL25p<sup>^^^</sup></li> <li>• BL35p<sup>^^</sup></li> <li>• BL45p<sup>^^^</sup></li> <li>• DL360 G4</li> <li>• DL360 G4p</li> <li>• DL380 G4</li> <li>• DL580 G3</li> <li>• DL585</li> <li>• DL385</li> <li>• ML370 G4</li> <li>• ML570 G3</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.</p> <p><b>^^^Note:</b> Supports the FC Adapter Card BL20p G3</p> <p><b>^^^Note:</b> Supports the HPBALCF 105</p> <p><b>Server Software:</b> <a href="#">SmartStart</a> <b>Ver:</b> 7.4 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.4)</p>	<p><b>HBA Family 1</b> <b>StorPort Driver:</b> 7-1.11a0 <b>FW:</b> 1.91a1 <b>BIOS:</b> 1.70a3</p> <ul style="list-style-type: none"> <li>• <a href="#">FCA2408</a></li> <li>• <a href="#">A7387A</a></li> <li>• <a href="#">A7388A</a></li> </ul> <p><b>HBA Family 2</b> <b>StorPort Driver:</b> 7-1.11a0 <b>FW:</b> 1.91a2 <b>BIOS:</b> 1.70a3</p> <ul style="list-style-type: none"> <li>• <a href="#">E-FC Balcony Card</a> ^^</li> <li>• <a href="#">E-FC Adapter Card</a> ^^</li> </ul> <p><b>^^For the BL25p, BL30p, BL35p, &amp; BL45p use E-FC Balcony Card.</b></p> <p><b>^^^For the BL20p G3 use E-FC Adapter Card.</b></p> <p><b>HBA Family 3</b> <b>StorPort Driver:</b> 9.0.2.16 <b>FW:</b> NA <b>BIOS:</b> 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 Balcony card</a></li> <li>• <a href="#">FC Mezz card</a> ^</li> </ul> <p><b>HBA Family 4</b> <b>StorPort Driver:</b> 9.0.2.16 <b>FW:</b> NA <b>BIOS:</b> 1.48</p> <p><a href="#">HPBALCF105</a> for BL25p, BL45p</p> <p><b>HBA Family 5</b> <b>StorPort Driver:</b> 7-1.11a0 <b>FW:</b> 2.50a2 <b>BIOS:</b> 1.70a3</p> <ul style="list-style-type: none"> <li>• <a href="#">FC2142</a></li> <li>• <a href="#">FC2242</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="#">Windows MPIO DSM for EVA</a> <b>Ver:</b> 1.00.02</p>	<p><a href="#">StorageWorks 8000 Enterprise Virtual Array</a> Array Controller Firmware 5.030</p> <p><a href="#">StorageWorks 6000 Enterprise Virtual Array</a> Array Controller Firmware 5.030</p> <p><a href="#">StorageWorks 4000 Enterprise Virtual Array</a> Array Controller Firmware 5.030</p> <p><a href="#">HP OpenView Storage Operations Manager</a> Version 1.2</p> <p><a href="#">Continuous Access EVA Software</a> Version 2.1</p> <p><a href="#">Command View</a> V4.1</p>	<p><b>B-Series</b> StorageWorks SAN Switches (8/16 ports 2GB) <b>FW:</b> 3.2.0a</p> <ul style="list-style-type: none"> <li>• <a href="#">SAN Switch 2/16</a></li> </ul> <p><b>FW:</b> 5.01b</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:</b> 5.01b</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> 07.01.02-4</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> 2.1(2b)</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><a href="#">Product Page</a></p> <p><a href="#">Supporting Documentation</a></p> <p><a href="#">MCS Support Matrix - archive</a></p> <p>November 2005</p>

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#3 Windows Server 2003, x64 Editions	<p><b>Max Supported nodes = 8</b></p> <p>ProLiant</p> <ul style="list-style-type: none"> <li>• BL20p G3<sup>^^</sup></li> <li>• BL25p<sup>^^^</sup></li> <li>• BL35p<sup>^^</sup></li> <li>• DL360 G4</li> <li>• DL360 G4p</li> <li>• DL380 G4</li> <li>• DL580 G3</li> <li>• DL585</li> <li>• DL385</li> <li>• ML370 G4</li> <li>• ML570 G3</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.</p> <p><b>^^^Note:</b> Supports the FC Adapter Card BL20p G3</p> <p><b>^^^Note:</b> Supports the HPBALCF 105</p> <p><b>Server Software:</b> <a href="#">SmartStart</a> <b>Ver: 7.2</b> (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.2)</p>	<p><b><a href="#">HBA Family 1</a></b></p> <p><b>StorPort Driver:</b> 7-1.03a10 <b>FW:</b> 1.90a4 <b>BIOS:</b> 1.70a1</p> <ul style="list-style-type: none"> <li>• <a href="#">FCA2404</a></li> <li>• <a href="#">FCA2404DC</a></li> <li>• <a href="#">A7560A</a></li> </ul> <p><b><a href="#">HBA Family 2</a></b></p> <p><b>StorPort Driver:</b> 7-1.03a10 <b>FW:</b> 1.90a4 <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><a href="#">HBA Family 3</a></b></p> <p><b>StorPort Driver:</b> 9.0.2.16 <b>FW:</b> NA <b>BIOS:</b> 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 Balcony card</a></li> <li>• <a href="#">FC Mezz card</a> ^</li> </ul> <p><b>^For the BL20p G3 use:</b> <b>BIOS:</b> 1.45 bl20p G3</p> <p><b><a href="#">HBA Family 4</a></b></p> <p><b>StorPort Driver:</b> 9.0.2.16 <b>FW:</b> NA <b>BIOS:</b> 1.48</p> <p><a href="#">HPBALCF105</a> for BL25p</p> <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="#">Windows MPIO DSM for EVA</a> <b>Ver:</b> 1.0</p>	<p><a href="#">StorageWorks 8000 Enterprise Virtual Array</a> <b>Array Controller</b> <b>Firmware 5.020</b></p> <p><a href="#">StorageWorks 6000 Enterprise Virtual Array</a> <b>Array Controller</b> <b>Firmware 5.020</b></p> <p><a href="#">StorageWorks 4000 Enterprise Virtual Array</a> <b>Array Controller</b> <b>Firmware 5.020</b></p> <p><a href="#">HP OpenView Storage Operations Manager</a> Version 1.2</p> <p><a href="#">Continuous Access EVA Software</a> Version 2.1</p>	<p><b><a href="#">B-Series</a></b> StorageWorks SAN Switches (8/16 ports 2GB) <b>FW:</b> 3.2.0</p> <ul style="list-style-type: none"> <li>• <a href="#">SAN Switch 2/8V</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> 4.4.0b</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> <li>• <a href="#">SAN Director 2/128</a></li> </ul> <p><b><a href="#">M-Series</a></b> StorageWorks Director and Edge Switches <b>FW:</b> 07.00.00-84</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 2/64</a></li> <li>• <a href="#">Edge Switch 2/32</a></li> </ul> <p><b><a href="#">C-Series</a></b> Cisco Switches <b>FW:</b> 2.0(1b)</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><a href="#">Product Page</a></p> <p><a href="#">Supporting Documentation</a></p> <p><a href="#">MSCS Support Matrix - archive</a></p>

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