



## HP Cluster Configuration Support Matrix

### For Microsoft Windows 2000 Advanced Server & Windows Server 2003 (x86), EE HP StorageWorks MSA1000

Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information	Interconnects (Switches)*	Other
<p>Windows Server 2003, EE R2 SP2</p> <p>&amp;</p> <p>Windows 2000 Advanced Server, SP4</p>	<p>Max supported nodes = 8</p> <p>ProLiant</p> <ul style="list-style-type: none"> <li>BL20p G2^</li> <li>BL20p G3^^^</li> <li>BL40p</li> <li>BL30p^^</li> <li>BL35p^^</li> <li>BL25p^^^^</li> <li>BL45p^^^^</li> <li>DL360 G4,</li> <li>DL360 G5</li> <li>DL360 G4p</li> <li>DL365</li> <li>DL380 G4,</li> <li>DL380 G5</li> <li>DL580 G3,</li> <li>DL580 G4,</li> <li>DL580 G5</li> <li>DL585, DL585 G2</li> <li>DL385, DL385 G2</li> <li>ML370 G4,</li> <li>ML370 G5</li> <li>ML530,</li> <li>ML530 G2</li> <li>ML570 G3,</li> <li>ML570 G4</li> <li>BL460c</li> <li>BL480c</li> <li>BL465c</li> <li>BL680c</li> <li>BL685c</li> </ul> <p><b>*Note:</b> Servers can be used homogeneously or heterogeneously within a cluster. Maximum supported nodes for BL30p in a SCSIport config = 2</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: SmartStart Ver: 8.00</b></p>	<p><b>HBA Family 1</b> SCSIPort Driver: 5-5.30a2 FW: 1.91a5 BIOS: 2.01a2 (5.03a0)</p> <p>StorPort Driver: 5-2.01a4 FW: 1.91a5 BIOS: 2.01a2 (5.03a0)</p> <ul style="list-style-type: none"> <li><a href="#">FCA2404</a></li> <li><a href="#">FCA2404DC</a></li> </ul> <p>SCSIPort Driver: 5-5.30a2 FW: 1.91a5 BIOS: 1.71a0 (5.02a1)</p> <p>StorPort Driver: 5-2.00a12 FW: 1.91a5 BIOS: 1.71a0 (5.02a1)</p> <ul style="list-style-type: none"> <li><a href="#">A7387A</a></li> <li><a href="#">A7388A</a></li> </ul> <p><b>HBA Family 2</b> SCSIPort Driver: 5-5.30a2 FW: 1.91a5 BIOS: 1.71a0 (5.02a1)</p> <p>StorPort Driver: 5-2.00a12 FW: 1.91a5 BIOS: 1.71a0 (5.02a1)</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> SCSIPort Driver: 5-5.30a2 FW: 3.93a0 BIOS: 1.70a3</p> <p>StorPort Driver: 5-2.00a12 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> SCSIport Driver: 9.1.3.11 FW: Loaded from Driver BIOS FC Balcony: 1.48 BIOS: 1.45</p> <p>StorPort Driver: 9.1.7.17 StorPort Driver FC Balcony: 9.1.3.18 FW: Loaded from Driver BIOS FC Balcony: 1.48 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 Balcony card</a></li> <li><a href="#">FC Mezz card</a> ^</li> </ul> <p>^For the BL20p G3 use: BIOS: 1.45 bl20p G3</p> <p><b>HBA Family 5</b> SCSIport Driver: 9.1.3.11 FW: Loaded from driver BIOS: 1.48</p> <p>StorPort Driver: 9.1.3.18 FW: Loaded from driver BIOS: 1.48</p> <ul style="list-style-type: none"> <li><a href="#">HPBALCF105</a> for BL25p and BL45p</li> </ul>	<p><a href="#">Secure Path</a> Ver: 4.0c SP2-9 Raidisk.sys ver: 3.7.2.540</p>	<p><a href="#">StorageWorks MSA1000 Storage Controller FW:</a> v5.20</p>	<p><b>B-Series</b> StorageWorks SAN Switches (8/16 ports 2GB) FW: 5.3.1a</p> <p><a href="#">SAN Switch 2/32</a> <a href="#">SAN Switch 2/8V</a> <a href="#">SAN Switch 2/16V</a> <a href="#">SAN Switch 2/16N</a> FF <a href="#">SAN Director 2/128</a></p> <p>StorageWorks SAN Switches (&gt;32 ports) FW: 5.0.5f</p> <ul style="list-style-type: none"> <li><a href="#">Core Switch 2/64</a></li> </ul> <p>StorageWorks SAN Switches (4GB) FW: 6.1.0c</p> <ul style="list-style-type: none"> <li><a href="#">4/8 SAN Switch</a></li> <li><a href="#">4/16 SAN Switch</a></li> <li><a href="#">4/32 SAN Switch</a></li> <li><a href="#">4/32B SAN Switch</a></li> <li><a href="#">4/256 SAN Director</a></li> </ul> <p><b>M-Series</b> StorageWorks Director and Edge Switches FW: 09.06.02</p> <p><a href="#">Director 2/64</a> <a href="#">Director 2/140</a> <a href="#">Edge Switch 2/12</a> <a href="#">Edge Switch 2/24</a> <a href="#">Edge Switch 2/32</a></p> <p><b>C-Series</b> Cisco Switches FW: 3.3(1a)</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> <li><a href="#">MDS 9513</a></li> </ul> <p><b>^^Note:</b> Not supported with BL server line.</p> <p><b>*Note:</b> BL30p server supported with B-series switches only.</p>	<p><a href="#">Product Page</a></p> <p><a href="#">Supporting Documentation</a></p> <p><a href="#">MSCS Support Matrix - archive</a></p>

	<p><b>HBA Family 6</b>  <b>SCSIport Driver:</b> 5-5.30a2  <b>FW:</b> 2.72a2  <b>BIOS:</b> 1.71a0 (5.02a1)</p> <p><b>StorPort Driver:</b> 5-2.00a12  <b>FW:</b> 2.72a2  <b>BIOS:</b> 1.71a0 (5.02a1)</p> <ul style="list-style-type: none"> <li>• <a href="#">FC2142</a></li> <li>• <a href="#">FC2242</a></li> </ul> <p><b>HBA Family 7</b>  <b>SCSIport Driver:</b> 5-5.30a2  <b>FW:</b> 2.72a2  <b>BIOS:</b> 2.01a2 (5.03a0)</p> <p><b>StorPort Driver:</b> 5-2.01a4  <b>FW:</b> 2.72a2  <b>BIOS:</b> 2.01a2 (5.03a0)</p> <ul style="list-style-type: none"> <li>• <a href="#">FC2143</a></li> <li>• <a href="#">FC2243</a></li> </ul> <p><b>HBA Family 8</b>  <b>SCSIport Driver:</b> 5-5.30a2  <b>FW:</b> 2.72a2  <b>BIOS:</b> 3.00a4 (6.00a2)</p> <p><b>StorPort Driver:</b> 5-2.00a12  <b>FW:</b> 2.72a2  <b>BIOS:</b> 3.00a4 (6.00a2)</p> <p style="text-align: center;"><a href="#">LPe1105</a></p> <p><b>HBA Family 9</b>  <b>SCSIport Driver:</b> 9.1.3.11  <b>FW:</b> Loaded from driver  <b>BIOS:</b> 2.02 (1.73af)</p> <p><b>StorPort Driver:</b> 9.1.7.17  <b>FW:</b> Loaded from driver  <b>BIOS:</b> 2.02 (1.73af)</p> <ul style="list-style-type: none"> <li>• <a href="#">FC1143</a></li> <li>• <a href="#">FC1243</a></li> </ul> <p><b>HBA Family 10</b>  <b>SCSIport Driver:</b> 9.1.3.11  <b>FW:</b> Loaded from driver  <b>BIOS:</b> 2.02 (1.73af)</p> <p><b>StorPort Driver:</b> 9.1.7.17  <b>FW:</b> Loaded from driver  <b>BIOS:</b> 2.02 (1.73af)</p> <ul style="list-style-type: none"> <li>• <a href="#">FC1142</a></li> <li>• <a href="#">FC1242</a></li> </ul> <p><b>HBA Family 11</b>  <b>SCSIport Driver:</b> 9.1.3.11  <b>FW:</b> Loaded from driver  <b>BIOS:</b> 1.26 (1.64)</p> <p><b>StorPort Driver:</b> 9.1.3.18  <b>FW:</b> Loaded from driver  <b>BIOS:</b> 1.26 (1.64)</p> <ul style="list-style-type: none"> <li>• <a href="#">QMH2462</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>*Note 3:</b> StorPort Driver only supported on Windows Server 2003 Operating Systems.</p> <p><b>*Note 4:</b> For additional information on StorPort drivers, search the Microsoft's website for the latest StorPort QFE.</p>					
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<p>Windows Server 2003, EE R2 SP2 &amp; Windows 2000 Advanced Server, SP4</p>	<p>Max supported nodes = 8</p> <p>ProLiant</p> <ul style="list-style-type: none"> <li>• BL20p G2^</li> <li>• BL20p G3^^</li> <li>• BL40p</li> <li>• BL30p^^</li> <li>• BL35p^^</li> <li>• BL25p^^^</li> <li>• BL45p^^^</li> <li>• DL360 G4, DL360 G5</li> <li>• DL360 G4p</li> <li>• DL365</li> <li>• DL380 G4, DL380 G5</li> <li>• DL580 G3, DL580 G4, DL580 G5</li> <li>• DL585, DL585 G2</li> <li>• DL385, DL385 G2</li> <li>• ML370 G4, ML370 G5</li> <li>• ML530, ML530 G2</li> <li>• ML570 G3, ML570 G4</li> <li>• BL460c</li> <li>• BL480c</li> <li>• BL465c</li> <li>• BL680c</li> <li>• BL685c</li> </ul> <p><b>*Note:</b> Servers can be used homogeneously or heterogeneously within a cluster. Maximum supported nodes for BL30p in a SCSIport config = 2</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> 8.80 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.4)</p>	<p><b>HBA Family 1</b> <b>SCSI Port Driver:</b> 5-5.30a2 <b>FW:</b> 1.91a5 <b>BIOS:</b> 1.71a0 (5.02a1)</p> <p><b>StorPort Driver:</b> 5-2.00a12 <b>FW:</b> 1.91a5 <b>BIOS:</b> 1.71a0 (5.02a1)</p> <ul style="list-style-type: none"> <li>• <a href="#">FCA2404</a></li> <li>• <a href="#">FCA2404DC</a></li> <li>• <a href="#">A7387A</a></li> <li>• <a href="#">A7388A</a></li> </ul> <p><b>HBA Family 2</b> <b>SCSI Port Driver:</b> 5-5.30a2 <b>FW:</b> 1.91a5 <b>BIOS:</b> 1.71a0 (5.02a1)</p> <p><b>StorPort Driver:</b> 5-2.00a12 <b>FW:</b> 1.91a5 <b>BIOS:</b> 1.71a0 (5.02a1)</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> <b>SCSI Port Driver:</b> 5-5.30a2 <b>FW:</b> 3.93a0 <b>BIOS:</b> 1.70a3</p> <p><b>StorPort Driver:</b> 5-2.00a12 <b>FW:</b> 3.93a0 <b>BIOS:</b> 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> <b>SCSIport Driver:</b> 9.1.3.11 <b>FW:</b> Loaded from Driver <b>BIOS FC Balcony:</b> 1.48 <b>BIOS:</b> 1.45</p> <p><b>StorPort Driver:</b> 9.1.3.18 <b>FW:</b> Loaded from Driver <b>BIOS FC Balcony:</b> 1.48 <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>^For the BL20p G3 use: <b>BIOS:</b> 1.45 bl20p G3</p> <p><b>HBA Family 5</b> <b>SCSIport Driver:</b> 9.1.3.11 <b>FW:</b> Loaded from driver <b>BIOS:</b> 1.48</p> <p><b>StorPort Driver:</b> 9.1.3.18 <b>FW:</b> Loaded from driver <b>BIOS:</b> 1.48</p> <p><a href="#">HPBALCF105</a> for BL25p and BL45p</p> <p><b>HBA Family 6</b> <b>SCSIport Driver:</b> 5-5.30a2 <b>FW:</b> 2.72a2 <b>BIOS:</b> 1.71a0 (5.02a1)</p> <p><b>StorPort Driver:</b> 5-2.00a12 <b>FW:</b> 2.72a2 <b>BIOS:</b> 1.71a0 (5.02a1)</p> <ul style="list-style-type: none"> <li>• <a href="#">FC2142</a></li> <li>• <a href="#">FC2242</a></li> </ul> <p><b>HBA Family 7</b> <b>SCSIport Driver:</b> 5-5.30a2 <b>FW:</b> 2.72a2 <b>BIOS:</b> 1.71a0 (5.02a1)</p> <p><b>StorPort Driver:</b> 5-2.00a12 <b>FW:</b> 2.72a2</p>	<p><a href="#">Secure Path</a> <b>Ver:</b> 4.0c SP2-9 <b>Raidisk.sys ver:</b> 3.7.2.540</p>	<p><a href="#">StorageWorks MSA1000</a> <b>Storage Controller FW:</b> v5.20</p>	<p><b>B-Series</b> StorageWorks SAN Switches (8/16 ports 2GB) <b>FW:</b> 5.3.0d</p> <ul style="list-style-type: none"> <li>• <a href="#">SAN Switch 2/32</a></li> <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</a></li> <li>• <a href="#">FF</a></li> <li>• <a href="#">SAN Director 2/128</a></li> </ul> <p>StorageWorks SAN Switches (&gt;32 ports ) <b>FW:</b> 5.0.5f</p> <ul style="list-style-type: none"> <li>• <a href="#">Core Switch 2/64</a></li> </ul> <p>StorageWorks SAN Switches (4GB ) <b>FW:</b> 5.3.0d</p> <ul style="list-style-type: none"> <li>• <a href="#">4/8 SAN Switch</a></li> <li>• <a href="#">4/16 SAN Switch</a></li> <li>• <a href="#">4/32 SAN Switch</a></li> <li>• <a href="#">4/32B SAN Switch</a></li> <li>• <a href="#">4/256 SAN Director</a></li> </ul> <p><b>M-Series</b> StorageWorks Director and Edge Switches <b>FW:</b> 09.03.00</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> 3.2(2c)</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> <li>• <a href="#">MDS 9513</a></li> </ul> <p>^^Note: Not supported with BL server line.</p> <p>*Note: BL30p server supported with B-series switches only.</p>	<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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Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information	Interconnects (Switches)*	Other
<p>#1</p> <p>Windows Server 2003, EE R2 SP2 &amp;</p> <p>Windows 2000 Advanced Server, SP4</p>	<p>Max supported nodes = 8</p> <p>ProLiant</p> <ul style="list-style-type: none"> <li>• BL20p G2^</li> <li>• BL20p G3^^</li> <li>• BL40p</li> <li>• BL30p^^</li> <li>• BL35p^^</li> <li>• BL25p^^^</li> <li>• BL45p^^^</li> <li>• DL360 G4, DL360 G5</li> <li>• DL360 G4p</li> <li>• DL365</li> <li>• DL380 G4, DL380 G5</li> <li>• DL580 G3, DL580 G4</li> <li>• DL585, DL585 G2</li> <li>• DL385, DL385 G2</li> <li>• ML370 G4, ML370 G5</li> <li>• ML530, ML530 G2</li> <li>• ML570 G3, ML570 G4</li> <li>• BL460c</li> <li>• BL480c</li> <li>• BL465c</li> <li>• BL685c</li> </ul> <p>*Note: Servers can be used homogeneously or heterogeneously within a cluster. Maximum supported nodes for BL30p in a SCSIport config = 2</p> <p>**Note: Supports the FC Mezzanine card only.</p> <p>***Note: Supports the FC Adapter Card BL20p G3</p> <p>****Note: Supports the HPBALCF 105</p> <p><b>Server Software:</b> <b>SmartStart</b> <b>Ver:</b> 8.80 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.4)</p>	<p><b>HBA Family 1</b> <b>SCSIport Driver:</b> 5-5.30a2 <b>FW:</b> 1.91a5 <b>BIOS:</b> 1.71a0 (5.02 a1)</p> <p><b>StorPort Driver:</b> 5-1.20a7 <b>FW:</b> 1.91a5 <b>BIOS:</b> 1.71a0 (5.02 a1)</p> <ul style="list-style-type: none"> <li>• <a href="#">FCA2404</a></li> <li>• <a href="#">FCA2404DC</a></li> <li>• <a href="#">A7387A</a></li> <li>• <a href="#">A7388A</a></li> </ul> <p><b>HBA Family 2</b> <b>SCSIport Driver:</b> 5-5.30a2 <b>FW:</b> 1.91a5 <b>BIOS:</b> 1.71a0 (5.02 a1)</p> <p><b>StorPort Driver:</b> 5-1.20a7 <b>FW:</b> 1.91a5 <b>BIOS:</b> 1.71a0 (5.02 a1)</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> <b>SCSIport Driver:</b> 5-5.30a2 <b>FW:</b> 3.93a0 <b>BIOS:</b> 1.70a3</p> <p><b>StorPort Driver:</b> 5-1.20a7 <b>FW:</b> 3.93a0 <b>BIOS:</b> 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> <b>SCSIport Driver:</b> 9.1.3.11 <b>FW:</b> Loaded from Driver <b>BIOS FC Balcony:</b> 1.48 <b>BIOS:</b> 1.45</p> <p><b>StorPort Driver:</b> 9.1.3.16 <b>FW:</b> Loaded from Driver <b>BIOS FC Balcony:</b> 1.48 <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>^For the BL20p G3 use: <b>BIOS:</b> 1.45 bl20p G3</p> <p><b>HBA Family 5</b> <b>SCSIport Driver:</b> 9.1.3.11 <b>FW:</b> NA <b>BIOS:</b> 1.48</p> <p><b>StorPort Driver:</b> 9.1.3.16 <b>FW:</b> NA <b>BIOS:</b> 1.48</p> <p><a href="#">HPBALCF105</a> for BL25p and BL45p</p> <p><b>HBA Family 6</b> <b>SCSIport Driver:</b> 5-5.30a2 <b>FW:</b> 2.70a5 <b>BIOS:</b> 1.71a0 (5.02 a1)</p> <p><b>StorPort Driver:</b> 5-1.20a7 <b>FW:</b> 2.70a5 <b>BIOS:</b> 1.71a0 (5.02 a1)</p> <ul style="list-style-type: none"> <li>• <a href="#">FC2142</a></li> <li>• <a href="#">FC2242</a></li> </ul> <p><b>HBA Family 7</b> <b>SCSIport Driver:</b> 5-5.30a2 <b>FW:</b> 2.70a5 <b>BIOS:</b> 1.71a0 (5.02 a1)</p> <p><b>StorPort Driver:</b> 5-1.20a7 <b>FW:</b> 2.70a5 <b>BIOS:</b> 1.71a0 (5.02 a1)</p>	<p><a href="#">Secure Path</a> <b>Ver:</b> 4.0c SP2-9 <b>Raidisk.sys ver:</b> 3.7.2.540</p>	<p><a href="#">StorageWorks MSA1000</a> <b>Storage Controller FW:</b> v5.20</p>	<p><b>B-Series</b> StorageWorks SAN Switches (8/16 ports 2GB) <b>FW:</b> 5.2.1b</p> <ul style="list-style-type: none"> <li>• <a href="#">SAN Switch 2/32</a></li> <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</a></li> <li>• <a href="#">FF</a></li> <li>• <a href="#">SAN Director 2/128</a></li> </ul> <p>StorageWorks SAN Switches (&gt;32 ports ) <b>FW:</b> 5.0.5d</p> <ul style="list-style-type: none"> <li>• <a href="#">Core Switch 2/64</a></li> </ul> <p>StorageWorks SAN Switches (4GB ) <b>FW:</b> 5.3.0b</p> <ul style="list-style-type: none"> <li>• <a href="#">4/8 SAN Switch</a></li> <li>• <a href="#">4/16 SAN Switch</a></li> <li>• <a href="#">4/32 SAN Switch</a></li> <li>• <a href="#">4/256 SAN Director</a></li> </ul> <p><b>M-Series</b> StorageWorks Director and Edge Switches <b>FW:</b> 09.03.00</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> 3.2(1a)</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: Not supported with BL server line.</p> <p>*Note: BL30p server supported with B-series switches only.</p>	<p><a href="#">Product Page</a></p> <p><a href="#">Supporting Documentation</a></p> <p><a href="#">MSCS Support Matrix - archive</a></p>

	<ul style="list-style-type: none"> <li>• <a href="#">FC2143</a></li> <li>• <a href="#">FC2243</a></li> </ul> <p><b>HBA Family 8</b>  <b>SCSIport Driver:</b> 5-5.30a2  <b>FW:</b> 2.70a5  <b>BIOS:</b> 3.00a4 (6.00 a1)</p> <p><b>StorPort Driver:</b> 5-1.20a7  <b>FW:</b> 2.70a5  <b>BIOS:</b> 3.00a4 (6.00 a1)</p> <p style="text-align: center;"><a href="#">LPe1105</a></p> <p><b>HBA Family 9</b>  <b>SCSIport Driver:</b> 9.1.3.11  <b>FW:</b> 4.00.90  <b>BIOS:</b> 1.26 (1.64)</p> <p><b>StorPort Driver:</b> 9.1.3.16  <b>FW:</b> 4.00.90  <b>BIOS:</b> 1.26 (1.64)</p> <ul style="list-style-type: none"> <li>• <a href="#">FC1143</a></li> <li>• <a href="#">FC1243</a></li> </ul> <p><b>HBA Family 10</b>  <b>SCSIport Driver:</b> 9.1.3.11  <b>FW:</b> Loaded from driver  <b>BIOS:</b> 1.41</p> <p><b>StorPort Driver:</b> 9.1.3.16  <b>FW:</b> Loaded from driver  <b>BIOS:</b> 1.41</p> <ul style="list-style-type: none"> <li>• <a href="#">FC1142</a></li> <li>• <a href="#">FC1242</a></li> </ul> <p><b>HBA Family 11</b>  <b>SCSIport Driver:</b> 9.1.3.11  <b>FW:</b> 4.00.90  <b>BIOS:</b> 1.26 (1.64)</p> <p><b>StorPort Driver:</b> 9.1.3.16  <b>FW:</b> 4.00.90  BIOS: 1.26 (1.64)</p> <ul style="list-style-type: none"> <li>• <a href="#">QMH2462</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>*Note 3:</b> StorPort Driver only supported on Windows Server 2003 Operating Systems.</p> <p><b>*Note 4:</b> For additional information on StorPort drivers, search the Microsoft's website for the latest StorPort QFE.</p>						
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Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information	Interconnects (Switches)*	Other
<p>Windows Server 2003, EE R2</p> <p>&amp;</p> <p>Windows 2000 Advanced Server, SP4</p>	<p>Max supported nodes = 8</p> <p>ProLiant</p> <ul style="list-style-type: none"> <li>• BL20p G2^</li> <li>• BL20p G3^^</li> <li>• BL40p</li> <li>• BL30p^^</li> <li>• BL35p^^</li> <li>• BL25p^^^</li> <li>• BL45p^^^</li> <li>• DL360 G4,</li> <li>• DL360 G5</li> <li>• DL360 G4p</li> <li>• DL365</li> <li>• DL380 G4,</li> <li>• DL380 G5</li> <li>• DL580 G3,</li> <li>• DL580 G4</li> <li>• DL585, DL585 G2</li> <li>• DL385, DL385 G2</li> <li>• ML370 G4,</li> <li>• ML370 G5</li> <li>• ML530,</li> <li>• ML530 G2</li> <li>• ML570 G3,</li> <li>• ML570 G4</li> <li>• BL460c</li> <li>• BL480c</li> <li>• BL465c</li> <li>• BL685c</li> </ul> <p>*Note: Servers can be used homogeneously or heterogeneously within a cluster. Maximum supported nodes for BL30p in a SCSIport config = 2</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><b>Server Software:</b>  <b>SmartStart</b>  <b>Ver: 7.60</b>  (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.4)</p>	<p><b>HBA Family 1</b>  <b>SCSIport Driver:</b> 5-5.30a2  <b>FW:</b> 1.91a5  <b>BIOS:</b> 1.71a0</p> <p><b>StorPort Driver:</b> 5-1.20a7  <b>FW:</b> 1.91a5  <b>BIOS:</b> 1.71a0</p> <ul style="list-style-type: none"> <li>• <a href="#">FCA2404</a></li> <li>• <a href="#">FCA2404DC</a></li> <li>• <a href="#">A7387A</a></li> <li>• <a href="#">A7388A</a></li> </ul> <p><b>HBA Family 2</b>  <b>SCSIport Driver:</b> 9.1.3.11  <b>FW:</b> 1.91a5  <b>BIOS for 25p/45p:</b> 1.48  <b>BIOS for 20p/30p/35p:</b> 1.45</p> <p><b>StorPort Driver:</b> 9.1.3.16  <b>FW:</b> 1.91a5  <b>BIOS for 25p/45p:</b> 1.48  <b>BIOS for 20p/30p/35p:</b> 1.45</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>  <b>SCSIport Driver:</b> 5-5.20a10  <b>FW:</b> 3.93a0  <b>BIOS:</b> 1.70a3</p> <p><b>StorPort Driver:</b> 5-1.11x1  <b>FW:</b> 3.93a0  <b>BIOS:</b> 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>  <b>SCSIport Driver:</b> 9.1.3.11  <b>FW:</b> NA  <b>BIOS:</b> 1.45</p> <p><b>StorPort Driver:</b> 9.1.3.16  <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>^For the BL20p G3 use:  <b>BIOS:</b> 1.45 bl20p G3</p> <p><b>HBA Family 5</b>  <b>SCSIport Driver:</b> 9.1.3.11  <b>FW:</b> NA  <b>BIOS:</b> 1.48</p> <p><b>StorPort Driver:</b> 9.1.3.16  <b>FW:</b> NA  <b>BIOS:</b> 1.48</p> <p><a href="#">HPBALCF105</a> for BL25p and BL45p</p> <p><b>HBA Family 6</b>  <b>SCSIport Driver:</b> 5-5.30a2  <b>FW:</b> 2.50a6  <b>BIOS:</b> 1.71a0</p> <p><b>StorPort Driver:</b> 5-1.20a7  <b>FW:</b> 2.50a6  <b>BIOS:</b> 1.71a0</p> <ul style="list-style-type: none"> <li>• <a href="#">FC2142</a></li> <li>• <a href="#">FC2242</a></li> </ul> <p><b>HBA Family 7</b>  <b>SCSIport Driver:</b> 5-5.30a2  <b>FW:</b> 2.10a10  <b>BIOS:</b> 1.71a0</p> <p><b>StorPort Driver:</b> 5-1.20a7  <b>FW:</b> 2.10a10  <b>BIOS:</b> 1.71a0</p>	<p><b>Secure Path</b>  <b>Ver:</b> 4.0c SP2-1  <b>Raidisk.sys ver:</b> 3.7.2.540</p>	<p><b>StorageWorks</b>  <b>MSA1000</b>  <b>Storage Controller FW:</b> v4.48</p>	<p><b>B-Series</b>  StorageWorks SAN Switches (8/16 ports 2GB)  <b>FW:</b> 3.2.1b</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><b>FW:</b> 5.2.0</p> <ul style="list-style-type: none"> <li>• <a href="#">SAN Switch 2/32</a></li> <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> <li>• <a href="#">SAN Director 2/128</a></li> </ul> <p>StorageWorks SAN Switches (&gt;32 ports)  <b>FW:</b> 5.2.0</p> <ul style="list-style-type: none"> <li>• <a href="#">Core Switch 2/64</a></li> </ul> <p>StorageWorks SAN Switches (4GB)  <b>FW:</b> 5.2.0</p> <ul style="list-style-type: none"> <li>• <a href="#">4/8 SAN Switch</a></li> <li>• <a href="#">4/16 SAN Switch</a></li> <li>• <a href="#">4/32 SAN Switch</a></li> <li>• <a href="#">4/256 SAN Director</a></li> </ul> <p><b>M-Series</b>  StorageWorks Director and Edge Switches  <b>FW:</b> 09.00.00</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> 3.0(3)</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: Not supported with BL server line.</p> <p>*Note: BL30p server supported with B-series switches only.</p>	<p><a href="#">Product Page</a></p> <p><a href="#">Supporting Documentation</a></p> <p><a href="#">MSCS Support Matrix - archive</a></p>

	<ul style="list-style-type: none"> <li>• <a href="#">FC2143</a></li> <li>• <a href="#">FC2243</a></li> </ul> <p><b>HBA Family 8</b>  <b>SCSIport Driver:</b> 5-5.30a2  <b>FW:</b> 2.50a8  <b>BIOS:</b> 1.70a3</p> <p><b>StorPort Driver:</b> 5-1.11x1  <b>FW:</b> 2.50a8  <b>BIOS:</b> 1.70a3</p> <ul style="list-style-type: none"> <li>• <a href="#">LPe1105</a></li> </ul> <p><b>HBA Family 9</b>  <b>SCSIport Driver:</b> 9.1.3.11  <b>FW:</b> Loaded from driver  <b>BIOS:</b> 1.16</p> <p><b>StorPort Driver:</b> 9.1.3.16  <b>FW:</b> 2.50a2  <b>BIOS:</b> 1.16</p> <ul style="list-style-type: none"> <li>• <a href="#">FC1143</a></li> <li>• <a href="#">FC1243</a></li> </ul> <p><b>HBA Family 10</b>  <b>SCSIport Driver:</b> 9.1.3.11  <b>FW:</b> Loaded from driver  <b>BIOS:</b> 1.16</p> <p><b>StorPort Driver:</b> 9.1.3.16  <b>FW:</b> Loaded from driver  <b>BIOS:</b> 1.16</p> <ul style="list-style-type: none"> <li>• <a href="#">FC1142</a></li> <li>• <a href="#">FC1242</a></li> </ul> <p><b>HBA Family 10</b>  <b>SCSIport Driver:</b> 9.10.13  <b>FW:</b> Loaded from driver  <b>BIOS:</b> 1.16</p> <p><b>StorPort Driver:</b> 9.1.0.18  <b>FW:</b> Loaded from driver  <b>BIOS:</b> 1.16</p> <ul style="list-style-type: none"> <li>• <a href="#">QMH2462</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>Note 3:</b> StorPort Driver only supported on Windows Server 2003 Operating Systems.</p> <p>*<b>Note 4:</b> For additional information on StorPort drivers, search the Microsoft's website for the latest StorPort QFE.</p>						January 2007
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Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information	Interconnects (Switches)*	Other
Windows Server 2003, EE with Service Pack 1	<p>Max supported nodes = 8</p> <p>ProLiant</p> <ul style="list-style-type: none"> <li>• BL20p G2^</li> <li>• BL20p G3^^</li> <li>• BL40p</li> <li>• BL30p^^</li> <li>• BL35p^^</li> <li>• BL25p^^^^</li> <li>• BL45p^^^^</li> <li>• DL360 G3, DL360 G4</li> <li>• DL360 G4p</li> <li>• DL380 G3, DL380 G4</li> <li>• DL560</li> <li>• DL580G2, DL580 G3</li> <li>• DL585</li> <li>• DL385</li> <li>• DL740</li> <li>• DL760, DL760 G2</li> <li>• ML370 G3, ML370 G4</li> <li>• ML530, ML530 G2</li> <li>• ML570G2, ML570 G3</li> <li>• ML750</li> </ul> <p><b>*Note:</b> Servers can be used homogeneously or heterogeneously within a cluster. Maximum supported nodes for BL30p in a SCSIport config = 2</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> <b>SmartStart</b> <b>Ver:</b> 7.3 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.3)</p>	<p><b>HBA Family 1</b> <b>StorPort Driver:</b> 5-1.02a7 <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> <li>• <a href="#">A7387A</a></li> <li>• <a href="#">A7388A</a></li> </ul> <p><b>HBA Family 2</b> <b>SCSIport Driver:</b> 9.0.2.11 <b>FW:</b> NA <b>BIOS:</b> 1.45</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>HBA Family 3</b> <b>SCSIport Driver:</b> 9.0.2.11 <b>FW:</b> NA <b>BIOS:</b> 1.48</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 and BL45p</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><b>+ Note 3:</b> Fibre Channel HBA included in the ProLiant DL380 G3 Packaged Cluster with MSA1000 product</p> <p><b>*Note 4:</b> StorPort Driver only supported on Windows Server 2003 Operating Systems.</p> <p><b>*Note 5:</b> For additional information on StorPort drivers, search the Microsoft's website for the latest StorPort QFE.</p>	<p><b>Secure Path</b> <b>Ver:</b> 4.0c SP1 <b>Raidisk.sys ver:</b> 3.7.2.460</p> <p><b>Secure Path</b> <b>Ver:</b> 4.0c SP2 <b>Raidisk.sys ver:</b> 3.7.2.540</p>	<p><b>StorageWorks</b> <b>MSA1000</b> <b>Storage Controller</b> <b>FW:</b> v4.48</p> <p><b>MSA1000 Support</b> <b>Software CD ver:</b> 6.51-02</p>	<p><b>B-Series</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="#">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> 4.4.0b</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>M-Series</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 2/24</a></li> <li>• <a href="#">Edge Switch 2/32</a></li> </ul> <p><b>C-Series</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><b>Other Switches and Hubs</b></p> <ul style="list-style-type: none"> <li>• <a href="#">MSA Hub 2/3^^</a></li> </ul> <p><b>^Note:</b> Fibre Channel switch included in the ProLiant DL380 G3 &amp; G4 Packaged Cluster for MSA1000 product</p> <p><b>^^Note:</b> Not supported with BL server line</p> <p><b>*Note:</b> BL30p server supported with B-Series switches &amp; M-Series Edge Switch 2/12, 2/24 only.</p>	<p><a href="#">Product Page</a></p> <p><a href="#">Supporting Documentation</a></p> <p><a href="#">MSCS Support Matrix - archive</a></p>

June 2005

Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information	Interconnects (Switches)*	Other
Windows Server 2003, EE	<p>Max supported nodes = 8</p> <p>ProLiant</p> <ul style="list-style-type: none"> <li>• BL20p G2^</li> <li>• BL20p G3^^^</li> <li>• BL40p</li> <li>• BL30p^^</li> <li>• BL35p^^</li> <li>• BL25p^^^^</li> <li>• BL45p^^^^</li> <li>• DL360 G3, DL360 G4</li> <li>• DL360 G4p</li> <li>• DL380 G3, DL380 G4</li> <li>• DL560</li> <li>• DL580G2, DL580 G3</li> <li>• DL585</li> <li>• DL385</li> <li>• DL740</li> <li>• DL760, DL760 G2</li> <li>• ML370 G3, ML370 G4</li> <li>• ML530, ML530 G2</li> <li>• ML570G2, ML570 G3</li> <li>• ML750</li> </ul> <p>*Note: Servers can be used homogeneously or heterogeneously within a cluster. Maximum supported nodes for BL30p in a SCSIport config = 2</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><b>Server Software:</b> <a href="#">SmartStart</a> Ver: 7.3 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.3)</p>	<p><b>HBA Family 1</b> <b>SCSIport Driver:</b> 5-5.10a10 <b>FW:</b> 1.90a4 <b>BIOS:</b> 1.70a1</p> <p><b>StorPort Driver:</b> 5-1.02a7 <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> <li>• <a href="#">A7387A</a></li> <li>• <a href="#">A7388A</a></li> </ul> <p><b>HBA Family 2</b> <b>SCSIport 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 3</b> <b>SCSIport Driver:</b> 9.0.2.11 <b>FW:</b> NA <b>BIOS:</b> 1.45</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>^For the BL20p G3 use: <b>BIOS:</b> 1.45 bl20p G3</p> <p><b>HBA Family 4</b></p> <p><b>SCSIport Driver:</b> 9.0.2.11 <b>FW:</b> NA <b>BIOS:</b> 1.48</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 and BL45p</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>+ Note 3: Fibre Channel HBA included in the ProLiant DL380 G3 Packaged Cluster with MSA1000 product</p> <p>*Note 4: StorPort Driver only supported on Windows Server 2003 Operating Systems.</p> <p>*Note 5: For additional information on StorPort drivers, search the Microsoft's website for the latest StorPort QFE.</p>	<p><a href="#">Secure Path</a> Ver: 4.0c SP1 <b>Raidisk.sys ver:</b> 3.7.2.460</p>	<p><a href="#">StorageWorks MSA1000 Storage Controller</a> <b>FW:</b> v4.32</p> <p><b>Storage EMU:</b> V1.86</p> <p><b>MSA1000 Support Software CD ver:</b> 6.51-02</p>	<p><b>B-Series</b> <a href="#">StorageWorks SAN Switches (8/16 ports 2GB)</a> <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="#">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><a href="#">StorageWorks SAN Switches (&gt;32 ports )</a> <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>M-Series</b> <a href="#">StorageWorks Director and Edge Switches</a> <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 2/24</a></li> <li>• <a href="#">Edge Switch 2/32</a></li> </ul> <p><b>C-Series</b> <a href="#">Cisco Switches</a> <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><b>Other Switches and Hubs</b></p> <ul style="list-style-type: none"> <li>• <a href="#">MSA Hub 2/3^^</a></li> </ul> <p>^Note: Fibre Channel switch included in the ProLiant DL380 G3 &amp; G4 Packaged Cluster for MSA1000 product</p> <p>^^Note: Not supported with BL server line</p> <p>*Note: BL30p server supported with B-Series switches &amp; M-Series Edge Switch 2/12, 2/24 only.</p>	<p><a href="#">Product Page</a></p> <p><a href="#">Supporting Documentation</a></p> <p><a href="#">MSCS Support Matrix - archive</a></p>

May 2005

Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information	Interconnects (Switches)*	Other
Windows Server 2003, EE	<p>Max supported nodes = 8</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><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.</p> <p><b>SmartStart</b> Ver: 7.1 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.1)</p>	<p><b>HBA Family 1</b> SCSIport Driver: 5-5.10a10 FW: 1.81a2 BIOS: 1.70a1</p> <p>StorPort Driver: 5-1.02a5 FW: 1.81a2 BIOS: 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> SCSIport Driver: 5-5.10a10 FW: 1.81a3 BIOS: 1.70a1</p> <p>StorPort Driver: 5-1.02a5 FW: 1.81a3 BIOS: 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> SCSIport Driver: 5-5.10a10 FW: 3.92a2 BIOS: 1.70a1</p> <p>StorPort Driver: 5-1.02a5 FW: 3.92a2 BIOS: 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> 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><b>^For the BL20p G3 use:</b> SCSIport Driver: 9.0.0.13 FW: n/a BIOS: 1.43</p> <p><b>HBA Family 5</b> SCSIport Driver: 9.0.0.14 FW: n/a BIOS: 1.43</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><b>+ Note 3:</b> Fibre Channel HBA included in the ProLiant DL380 G3 Packaged Cluster with MSA1000 product</p> <p><b>*Note 4:</b> StorPort Driver only supported on Windows Server 2003 Operating Systems.</p> <p><b>*Note 5:</b> For additional information on StorPort drivers, search the Microsoft's website for the latest StorPort QFE.</p>	<p><b>Secure Path</b> Ver: 4.0c SP1 Raidisk.sys ver: 3.7.2.460</p>	<p><b>StorageWorks</b> <b>MSA1000</b> <b>Storage Controller</b> FW: v4.32</p> <p>FCAC driver ver: v.5.24.0.32</p> <p><b>Storage EMU:</b> V1.86</p> <p><b>MSA1000 Support</b> <b>Software CD ver:</b> 6.51-02</p>	<p><b>B-Series</b> StorageWorks SAN Switches (8/16 ports 2GB) FW: 3.1.2</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 ) 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> <li>• <a href="#">SAN Director 2/128</a></li> </ul> <p><b>M-Series</b> StorageWorks Director and Edge Switches FW: 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 FW: 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><b>Other Switches and Hubs</b></p> <ul style="list-style-type: none"> <li>• <a href="#">MSA Hub 2/3^^</a></li> </ul> <p><b>^Note:</b> Fibre Channel switch included in the ProLiant DL380 G3 &amp; G4 Packaged Cluster for MSA1000 product</p> <p><b>^^Note:</b> Not supported with BL server line</p> <p><b>*Note:</b> BL30p server supported with B-Series switches &amp; M-Series Edge Switch 2/12, 2/24 only.</p>	<p><a href="#">Product Page</a></p> <p><a href="#">Supporting Documentation</a></p> <p><a href="#">MSCS Support Matrix - archive</a></p>

November 2004

Config	Supported Servers*	Server Software	Host Bus Adapters (HBAs)**	Multi Path Software	Storage Information	Interconnects (Switches)	Other
Windows Server 2003, EE	<p>Max supported nodes = 8</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>• DL585^^</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>^^ Note: To configure the DL585 use the supplemental and Smart Start 7.0 CD that ships with the server. Server is not supported w/ HBA Family 1.</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><b>HBA Family 1</b> 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><b>HBA Family 2</b> Driver: 5-4.82.a16 FW: 1.01a2 BIOS: 1.63a1</p> <ul style="list-style-type: none"> <li>• <a href="#">FCA2404</a></li> <li>• <a href="#">FCA2404DC</a></li> </ul> <p><b>HBA Family 3</b> 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 <a href="#">Raidisk.sys</a> ver: 3.7.2.240</p>	<p><a href="#">StorageWorks MSA1000</a> Storage Controller FW: v4.32</p> <p>FCAC driver ver: v.5.24.0.32</p> <p>Storage EMU: V1.86</p> <p>MSA1000 Support Software CD ver : 6.52</p>	<p><a href="#">StorageWorks SAN Switches (1GB)</a> FW: 2.6.2</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><a href="#">StorageWorks SAN Switches (8/16 ports 2GB)</a> FW: 3.1.2</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> <li>• <a href="#">MSA SAN Switch 2/8 ++</a></li> </ul> <p><a href="#">StorageWorks SAN Switches (&gt;32 ports)</a> 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><a href="#">StorageWorks Director and Edge Switches</a> 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><a href="#">Cisco Switches</a> FW: 1.2.1b</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="#">Other Switches and Hubs</a></p> <ul style="list-style-type: none"> <li>• <a href="#">MSA Hub 2/3+</a></li> </ul> <p>+Not supported with BL server line ++ Fibre Channel switch included in the ProLiant DL380 G3 Packaged Cluster with MSA1000 product</p>	<p><a href="#">Product Page</a></p> <p><a href="#">Supporting Documentation</a></p> <p><a href="#">MSCS Support Matrix - archive</a></p>

June 2004

Config	Supported Servers *	Server Software	Host Bus Adapters (HBAs) **	Multi-Path Software	Storage Information	Interconnects (Switches)	Other
Windows Server 2003, EE	<p>Max supported nodes = 8</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, ML370 G2, ML370</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="#">FCA2214</a> + Driver: 8.2.0.73 FW: NA BIOS: 1.34</p> <p><a href="#">FCA2214DC</a> Driver: 8.2.0.73 FW: NA BIOS: 1.34</p> <p><a href="#">FCA2404</a> Driver: 5-4.82.a16 FW: 1.01a2 BIOS: 1.63a1</p> <p><a href="#">FC Mezzanine card</a> Driver: 8.2.0.73 FW: NA BIOS: 1.34</p> <p><a href="#">64-bit/33-MHz PCI-to-FC HBA (DS-KGPSA-CB)</a> Driver: 5-4.82.a16 FW: 3.91a1 BIOS: 1.63a1</p> <p>** Note: HBAs must be used homogeneously within a cluster.</p> <p>+ Fibre Channel HBA included in the ProLiant DL380 G3 Packaged Cluster with MSA1000 product</p>	<p><a href="#">Secure Path</a> Ver: 4.0c for Windows Workgroup Edition Raidisk.sys ver: 3.7.2.240</p>	<p><a href="#">StorageWorks MSA1000 Storage Controller FW:</a> v4.24</p> <p><b>Storage EMU:</b> V1.86</p> <p><b>MSA1000 Support Software CD:</b> 6.51</p>	<p>HP 1GB SAN Switches FW: 2.6.1</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: 3.1.1</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> <li>• <a href="#">MSA SAN Switch 2/8 ++</a></li> </ul> <p>HP 2GB SAN Switches &gt;32 ports FW: 4.1.1</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: 05.01.00-24</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>Other Switches and Hubs</p> <ul style="list-style-type: none"> <li>• <a href="#">MSA Hub 2/3+</a></li> <li>• <a href="#">MSA C8 Switch+ (embedded)</a></li> </ul> <p>+Not supported with BL server line ++ Fibre Channel switch included in the ProLiant DL380 G3 Packaged Cluster with MSA1000 product</p>	<p><a href="#">Product Page</a></p> <p><a href="#">Supporting Documentation</a></p> <p><a href="#">MSCS Support Matrix - archive</a></p> <p>November 2003</p>

Config	Supported Servers *	Server Software	Host Bus Adapters (HBAs) **	Multi-Path Software	Storage Information	Interconnects (Switches) ***	Other
Windows Server 2003, EE	<p>Microsoft certification = 2 nodes</p> <p>HP max supported nodes = 8</p> <p>ProLiant:</p> <ul style="list-style-type: none"> <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, ML370 G2, ML370</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.a14 FW: 3.91a1 BIOS: 1.61.a2</p> <p><a href="#">64-bit/33-MHz PCI to FC HBA</a> Driver: 5-4.82.a14 FW: 3.82a1 BIOS: 1.61a2</p> <p>** Note: HBAs must be used homogeneously within a cluster.</p>	<p><a href="#">Secure Path</a> Ver: 4.0b for Windows Workgroup Edition Raidisk.sys ver: 3.6.3.674</p>	<p><a href="#">StorageWorks MSA1000 Storage Controller FW:</a> v2.38</p> <p><b>Storage EMU:</b> V1.86</p> <p><b>MSA1000 Support Software CD:</b> 6.31</p>	<p>HP 1GB SAN Switches FW: 2.6.0h</p> <ul style="list-style-type: none"> <li>• <a href="#">SAN Switch 8-EL</a></li> <li>• <a href="#">SAN Switch 16-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: 3.0.2k</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> <li>• <a href="#">MSA SAN Switch 2/8</a></li> </ul> <p>HP 2GB SAN Switches &gt;32 ports FW: 4.0.2b</p> <ul style="list-style-type: none"> <li>• <a href="#">SAN Switch 2/32 EL</a></li> <li>• <a href="#">Core Switch 2/64</a></li> </ul> <p>HP Director and Edge Switches FW: 04.01.02-4</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 2/16</a></li> <li>• <a href="#">Edge Switch 2/24</a></li> <li>• <a href="#">Edge Switch 2/32</a></li> </ul> <p>Other Switches and Hubs</p> <ul style="list-style-type: none"> <li>• <a href="#">MSA Hub 2/3+</a></li> <li>• <a href="#">MSA C8 Switch+ (embedded)</a></li> <li>• <a href="#">FC Storage Hub 7+</a></li> </ul> <p>+Not supported with BL server line</p>	<p><a href="#">Product Page</a></p> <p><a href="#">Supporting Documentation</a></p> <p><a href="#">MCS Support Matrix - archive</a></p> <p>June 2003</p>