



## HP Cluster Configuration Support Matrix For Microsoft Windows Server 2003 EE HP StorageWorks Disk Array XP1024/XP128

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 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.</p> <p>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: 8.00</p>	<p><b>HBA Family 1</b> SCSIport Driver: 9.1.3.11 BIOS: 1.26 (1.64)</p> <p>StorPort Driver: 9.1.3.18 BIOS: 1.26 (1.64)</p> <p>•<a href="#">QMh2462</a></p> <p><b>HBA Family 2</b> SCSIport Driver: 5-5.30a2 FW: 2.72a2 BIOS: 3.00a4 (6.00a2)</p> <p>StorPort Driver: 5-2.00a12 FW: 2.72a2 BIOS: 3.00a4 (6.00a2)</p> <p>•<a href="#">LPe1105</a></p> <p><b>HBA Family 3</b> SCSIport Driver: 9.1.3.11 BIOS: 2.02 (1.73af)</p> <p>StorPort Driver: 9.1.7.17 BIOS: 2.02 (1.73af)</p> <p>•<a href="#">FC1143</a> •<a href="#">FC1243</a></p> <p><b>HBA Family 4</b> SCSIport Driver: 5-5.30a2 FW: 2.72a2 BIOS: 2.01a2 (5.03a0)</p> <p>StorPort Driver: 5-2.01a4 FW: 2.72a2 BIOS: 2.01a2 (5.03a0)</p> <p>•<a href="#">FC2143</a> •<a href="#">FC2243</a></p> <p><b>HBA Family 5</b> SCSIport Driver: 9.1.3.11 BIOS: 1.26 (1.64)</p> <p>StorPort Driver: 9.1.3.18 BIOS: 1.26 (1.64)</p> <p>•<a href="#">FC1142SR</a> •<a href="#">FC1242SR</a></p> <p><b>HBA Family 6</b> SCSIport Driver: 5-5.30a2 FW: 2.72a2 BIOS: 2.01a2 (5.03a0)</p> <p>StorPort Driver: 5-2.01a4 FW: 2.72a2 BIOS: 2.01a2 (5.03a0)</p> <p>•<a href="#">FC2142SR</a> •<a href="#">FC2242SR</a></p> <p><b>HBA Family 7</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> <p>•<a href="#">FCA2404</a> •<a href="#">FCA2404DC</a> •<a href="#">A7387A</a> •<a href="#">A7388A</a></p>	<p>HP FF MPIO <a href="#">DSM</a> Ver: 3.00.00</p> <p><a href="#">Secure Path</a> Ver: 4.0c SP3</p>	<p>HP StorageWorks Disk Array <a href="#">XP1024</a> Controller Firmware: 21.14.40.00 Minimum Controller Firmware: 21.14.14.00</p> <p>HP StorageWorks Disk Array <a href="#">XP128</a> Controller Firmware: 21.14.40.00 Minimum Controller Firmware: 21.14.14.00</p> <p>HP StorageWorks Cluster <a href="#">Extension XP:</a> Version 2.08.01</p>	<p><b>B-Series</b> StorageWorks SAN Switches (8/16 ports 2Gb) FW: 3.2.1c</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) FW: 5.3.1a</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: 5.3.1a</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 ) 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="#">SAN Switch 4/8</a></li> <li>•<a href="#">SAN Switch 4/16</a></li> <li>•<a href="#">SAN Switch 4/32</a></li> <li>•<a href="#">SAN Switch 4/32B</a></li> <li>•<a href="#">SAN Director 4/64</a></li> <li>•<a href="#">SAN Director 4/256</a></li> </ul> <p><b>M-Series</b> StorageWorks Director and Edge Switches FW: 09.06.02</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 2/16</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</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>FW: 3.3(1a)</p> <p>*Note: BL30p server not supported with M-Series Director switches.</p>	<p>For additional information on StorPort drivers, we recommend a search of Microsoft's website for the latest StorPort QFE.</p>

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		<p><b><a href="#">HBA Family 8</a></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><a href="#">HBA Family 9</a></b>  <b>SCSI port Driver:</b> 9.1.3.11  <b>BIOS:</b> 1.45</p> <p><b>StorPort Driver:</b> 9.1.7.17  <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 Mezz card</a></li> </ul> <p><b><a href="#">HBA Family 10</a></b>  <b>SCSI port Driver:</b> 9.1.3.11  <b>BIOS:</b> 1.48</p> <p><b>StorPort Driver:</b> 9.1.3.18  <b>BIOS:</b> 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>July 2008</p>

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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 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.</p> <p>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: 7.60</p>	<p><b>HBA Family 1</b>  <b>SCSIport Driver:</b> 9.1.3.11  <b>BIOS:</b> 1.26 (1.64)</p> <p><b>StorPort Driver:</b> 9.1.3.18  <b>BIOS:</b> 1.26 (1.64)</p> <p>•<a href="#">QMH2462</a></p> <p><b>HBA Family 2</b>  <b>SCSIport Driver:</b> 5-5.30a2  FW: 2.72a2  <b>BIOS:</b> 3.00a4 (6.00a2)</p> <p><b>StorPort Driver:</b> 5-2.00a12  FW: 2.72a2  <b>BIOS:</b> 3.00a4 (6.00a2)</p> <p>•<a href="#">LPe1105</a></p> <p><b>HBA Family 3</b>  <b>SCSIport Driver:</b> 9.1.3.11  <b>BIOS:</b> 1.26 (1.64)</p> <p><b>StorPort Driver:</b> 9.1.3.18  <b>BIOS:</b> 1.26 (1.64)</p> <p>•<a href="#">FC1143</a>  •<a href="#">FC1243</a></p> <p><b>HBA Family 4</b>  <b>SCSIport Driver:</b> 5-5.30a2  FW: 2.72a2  <b>BIOS:</b> 1.71a0 (5.02a1)</p> <p><b>StorPort Driver:</b> 5-2.00a12  FW: 2.72a2  <b>BIOS:</b> 1.71a0 (5.02a1)</p> <p>•<a href="#">FC2143</a>  •<a href="#">FC2243</a></p> <p><b>HBA Family 5</b>  <b>SCSIport Driver:</b> 9.1.3.11  <b>BIOS:</b> 1.26 (1.64)</p> <p><b>StorPort Driver:</b> 9.1.3.18  <b>BIOS:</b> 1.26 (1.64)</p> <p>•<a href="#">FC1142SR</a>  •<a href="#">FC1242SR</a></p> <p><b>HBA Family 6</b>  <b>SCSIport Driver:</b> 5-5.30a2  FW: 2.72a2  <b>BIOS:</b> 1.71a0 (5.02a1)</p> <p><b>StorPort Driver:</b> 5-2.00a12  FW: 2.72a2  <b>BIOS:</b> 1.71a0 (5.02a1)</p> <p>•<a href="#">FC2142SR</a>  •<a href="#">FC2242SR</a></p> <p><b>HBA Family 7</b>  <b>SCSIport Driver:</b> 5-5.30a2  FW: 1.91a5  <b>BIOS:</b> 1.71a0 (5.02a1)</p> <p><b>StorPort Driver:</b> 5-2.00a12  FW: 1.91a5  <b>BIOS:</b> 1.71a0 (5.02a1)</p> <p>•<a href="#">FCA2404</a>  •<a href="#">FCA2404DC</a>  •<a href="#">A7387A</a>  •<a href="#">A7388A</a></p> <p><b>HBA Family 8</b>  <b>SCSI mini-port Driver:</b> 5-5.30a2  FW: 3.93a0  <b>BIOS:</b> 1.70a3</p> <p><b>StorPort Driver:</b> 5-2.00a12  FW: 3.93a0  <b>BIOS:</b> 1.70a3</p> <p>•<a href="#">FCA2101</a>  •<a href="#">FCA2355</a></p>	<p><a href="#">HP FF MPIO DSM</a>  Ver: 2.00.02</p> <p><a href="#">Secure Path</a>  Ver: 4.0c SP2-5</p> <p><a href="#">Secure Path</a>  Ver: 4.0c SP2-1</p>	<p><a href="#">HP StorageWorks Disk Array XP1024</a>  <b>Controller Firmware:</b> 21.14.37  <b>Minimum Controller Firmware:</b> 21.14.14</p> <p><a href="#">HP StorageWorks Disk Array XP128</a>  <b>Controller Firmware:</b> 21.14.37  <b>Minimum Controller Firmware:</b> 21.14.14</p> <p><a href="#">HP StorageWorks Cluster Extension XP:</a>  Version 2.08.01</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>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 2/8V</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> 5.3.0d</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:</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="#">SAN Switch 4/8</a></li> <li>•<a href="#">SAN Switch 4/16</a></li> <li>•<a href="#">SAN Switch 4/32</a></li> <li>•<a href="#">SAN Switch 4/32B</a></li> <li>•<a href="#">SAN Director 4/64</a></li> <li>•<a href="#">SAN Director 4/256</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 2/16</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</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>FW:</b> 3.2(2c)</p> <p>*Note: BL30p server not supported with M-Series Director switches.</p>	<p>For additional information on StorPort drivers, we recommend a search of Microsoft's website for the latest StorPort QFE.</p>

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		<p><b>HBA Family 9</b>  SCSI mini-port Driver:  9.1.3.11  BIOS: 1.45</p> <p><b>StorPort Driver:</b> 9.1.3.18  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 10</b>  SCSI mini-port Driver:  9.1.3.11  BIOS: 1.48</p> <p><b>StorPort Driver:</b> 9.1.3.18  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>January  2008</p>

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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 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><b>*Note:</b> Servers can be used homogeneously or heterogeneously within a cluster.</p> <p>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>  Ver: 7.60</p>	<p><b>HBA Family 1</b>  <b>SCSIport Driver:</b> 9.1.0.13  <b>BIOS:</b> 1.39</p> <p><b>StorPort Driver:</b> 9.1.0.18  <b>BIOS:</b> 1.39</p> <p>•<a href="#">QMH2462</a></p> <p><b>HBA Family 2</b>  <b>SCSIport Driver:</b> 5-5.30a2  FW:2.50a8  <b>BIOS:</b> 1.70a3</p> <p><b>StorPort Driver:</b> 5-1.11x1  FW:2.50a8  <b>BIOS:</b> 1.70a3</p> <p>•<a href="#">LPe1105</a></p> <p><b>HBA Family 3</b>  <b>SCSIport Driver:</b> 9.1.3.11  <b>BIOS:</b> 1.41</p> <p><b>StorPort Driver:</b> 9.1.3.16  <b>BIOS:</b> 1.41</p> <p>•<a href="#">FC1143</a>  •<a href="#">FC1243</a></p> <p><b>HBA Family 4</b>  <b>SCSIport Driver:</b> 5-5.30a2  FW:2.10a10  <b>BIOS:</b> 1.71a0</p> <p><b>StorPort Driver:</b> 5-1.20a7  FW:2.10a10  <b>BIOS:</b> 1.71a0</p> <p>•<a href="#">FC2143</a>  •<a href="#">FC2243</a></p> <p><b>HBA Family 5</b>  <b>SCSIport Driver:</b> 9.1.3.11  <b>BIOS:</b> 1.16</p> <p><b>StorPort Driver:</b> 9.1.3.16  <b>BIOS:</b> 1.16</p> <p>•<a href="#">FC1142SR</a>  •<a href="#">FC1242SR</a></p> <p><b>HBA Family 6</b>  <b>SCSIport Driver:</b> 5-5.30a2  FW:2.50a6  <b>BIOS:</b> 1.71a0</p> <p><b>StorPort Driver:</b> 5-1.20a7  FW:2.50a6  <b>BIOS:</b> 1.71a0</p> <p>•<a href="#">FC2142SR</a>  •<a href="#">FC2242SR</a></p> <p><b>HBA Family 7</b>  <b>SCSIport Driver:</b> 5-5.30a2  FW: 1.91a5  <b>BIOS:</b> 1.71a0</p> <p><b>StorPort Driver:</b> 5-1.20a7  FW: 1.91a1  <b>BIOS:</b> 1.71a0</p> <p>•<a href="#">FCA2404</a>  •<a href="#">FCA2404DC</a>  •<a href="#">A7387A</a>  •<a href="#">A7388A</a></p> <p><b>HBA Family 8</b>  <b>SCSI mini-port Driver:</b> 5-5.20a10  FW: 3.93a0  <b>BIOS:</b> 1.70a3</p> <p><b>StorPort Driver:</b> 5-1.11x1  FW: 3.93a0  <b>BIOS:</b> 1.70a3</p> <p>•<a href="#">FCA2101</a>  •<a href="#">FCA2355</a></p>	<p><a href="#">HP FF MPIO DSM</a>  Ver: 2.00.01</p> <p><a href="#">Secure Path</a>  Ver: 4.0c SP2-5</p> <p><a href="#">Secure Path</a>  Ver: 4.0c SP2-1</p>	<p><a href="#">HP StorageWorks Disk Array XP1024</a>  <b>Controller Firmware:</b> 21.14.30  <b>Controller Firmware:</b> 21.13.02</p> <p><a href="#">HP StorageWorks Disk Array XP128</a>  <b>Controller Firmware:</b> 21.14.30  <b>Controller Firmware:</b> 21.13.02</p> <p><a href="#">HP StorageWorks Cluster Extension XP:</a>  Version 2.07.00</p>	<p><b>B-Series</b>  StorageWorks SAN Switches (8/16 ports 2Gb)  <b>FW:</b> 3.2.1b  •<a href="#">MSA SAN Switch 2/8</a>  •<a href="#">SAN Switch 2/16</a></p> <p>StorageWorks SAN Switches (8/16 ports 2Gb)  <b>FW:</b> 5.2.0  •<a href="#">SAN Switch 2/8V</a>  •<a href="#">SAN Switch 2/16V</a>  •<a href="#">SAN Switch 2/16N FF</a></p> <p>StorageWorks SAN Switches (&gt;32 ports )  <b>FW:</b> 5.2.0  •<a href="#">SAN Switch 2/32</a>  •<a href="#">SAN Director 2/128</a></p> <p>StorageWorks SAN Switches (&gt;32 ports )  <b>FW:</b> 5.0.5a  •<a href="#">Core Switch 2/64</a></p> <p>StorageWorks SAN Switches (4Gb)  <b>FW:</b> 5.2.0  •<a href="#">SAN Switch 4/8</a>  •<a href="#">SAN Switch 4/16</a>  •<a href="#">SAN Switch 4/32</a>  •<a href="#">SAN Director 4/64</a>  •<a href="#">SAN Director 4/256</a></p> <p><b>M-Series</b>  StorageWorks Director and Edge Switches  <b>FW:</b> 09.00.00  •<a href="#">Director 2/64</a>  •<a href="#">Director 2/140</a>  •<a href="#">Edge Switch 2/12</a>  •<a href="#">Edge Switch 2/16</a>  •<a href="#">Edge Switch 2/24</a>  •<a href="#">Edge Switch 2/32</a></p> <p><b>C-Series</b>  Cisco Switches  •<a href="#">MDS 9120</a>  •<a href="#">MDS 9140</a>  •<a href="#">MDS 9216</a>  •<a href="#">MDS 9506</a>  •<a href="#">MDS 9509</a>  •<a href="#">MDS 9513</a>  <b>FW:</b> 3.0(3)</p> <p><b>*Note:</b> BL30p server not supported with M-Series Director switches.</p>	<p>For additional information on StorPort drivers, we recommend a search of Microsoft's website for the latest StorPort QFE.</p>

Config	Supported Servers*	Host Bus Adapters (HBAs)*	Multi Path Software	Storage Information	Interconnects (Switches)*	Other
		<p><b>HBA Family 9</b>  SCSI mini-port Driver:  9.1.3.11  BIOS: 1.45</p> <p>StorPort Driver: 9.1.3.16  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 10</b>  SCSI mini-port Driver:  9.1.3.11  BIOS: 1.48</p> <p>StorPort Driver: 9.1.3.16  BIOS: 1.48</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>February  2007</p>

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^, BL20p G3^, BL25p^, BL45p^</li> <li>• BL40p</li> <li>• BL30p^^, BL35p^^</li> <li>• DL360 G3, DL360 G4</li> <li>• DL380 G3, DL380 G4, DL380 G4p</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.</p>	<p><a href="#">SmartStart</a> Ver: 7.3</p>	<p><b>HBA Family 1</b> SCSIport Driver: 5-5.10a10 FW: 1.90a4 BIOS: 1.70a1</p> <p>StorPort Driver: 5-1.02a7 FW: 1.90a4 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: 1.901a4 BIOS: 1.70a1</p> <p>StorPort Driver: 5-1.02a7 FW: 1.90a4 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> SCSI miniport Driver: 5-4.82.a16 FW: 3.91a1 BIOS: 1.63a1</p> <p>SCSI miniport Driver: 5-5.10a10 FW: 3.92a2 BIOS: 1.70a1</p> <p>StorPort Driver: 5-1.02a7 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> SCSIport Driver: 9.0.0.13 or 9.0.2.11 FW: n/a BIOS: 1.34 or 1.45</p> <p>StorPort Driver: 9.0.2.16 FW: n/a BIOS: 1.34 or 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> SCSIport Driver: 9.0.0.14 or 9.0.2.11 FW: n/a BIOS: 1.43 or 1.45 (recommended)</p> <p>StorPort Driver: 9.0.2.16 FW: n/a BIOS: 1.45</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> 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 XP1024</a> Controller Firmware: V21.13.02</p> <p><a href="#">HP StorageWorks Disk Array XP128</a> Controller Firmware: V21.13.02</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>• <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: 4.4.0b or 4.4.0c</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: 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 FW: 2.1.1a</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: BL30p server not supported with M-Series Director switches.</p>	<p>For additional information on StorPort drivers, we recommend a search of Microsoft's website for the latest StorPort QFE.</p> <p>June 2005</p>

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^, 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.</p>	<p><a href="#">SmartStart</a> 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> SCSI miniport Driver: 5-4.82.a16 FW: 3.91a1 BIOS: 1.63a1</p> <p>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> SCSIport Driver: 9.0.0.13 FW: n/a 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>HBA Family 5</b> SCSIport Driver: 9.0.0.14 FW: n/a BIOS: 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> Ver: 4.0c SP1 <b>Raidisk.sys</b> ver: 3.7.2.460</p>	<p><a href="#">HP StorageWorks Disk Array XP1024</a> <b>Controller Firmware:</b> V21.08.23</p> <p><a href="#">HP StorageWorks Disk Array XP128</a> <b>Controller Firmware:</b> V21.08.23</p> <p><a href="#">HP StorageWorks Cluster Extension XP:</a> Automatic remote cluster fail-over for Windows GeoCluster environments</p>	<p><b>B-Series</b> StorageWorks SAN Switches (8/16 ports 2GB) FW: 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 ) FW: 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 FW: 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>*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 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> <b>Driver:</b> 5-4.82.a16 <b>FW:</b> 3.91a1 <b>BIOS:</b> 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> <b>Driver:</b> 5-4.82.a16 <b>FW:</b> 1.01a2 <b>BIOS:</b> 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><b>HBA Family 3</b> <b>Driver:</b> 8.2.0.73 <b>FW:</b> NA <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>** 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 <b>Raidisk.sys</b> ver: 3.7.2.240</p>	<p><a href="#">HP StorageWorks Disk Array XP1024</a> <b>Controller Firmware:</b> V21.07.04</p> <p><a href="#">HP StorageWorks Disk Array XP128</a> <b>Controller Firmware:</b> V21.07.04</p> <p><a href="#">HP StorageWorks Cluster Extension XP</a>: Automatic remote cluster fail-over for Windows GeoCluster environments</p>	<p>HP 1GB SAN Switches <b>FW:</b> 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 <b>FW:</b> 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 <b>FW:</b> 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 <b>FW:</b> 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><b>HP C-Series Switches</b> <b>FW:</b> 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>	May 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</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: 1.00</p>	<p><a href="#">HP StorageWorks Disk Array XP1024</a> Controller Firmware: V21.05.06</p> <p><a href="#">HP StorageWorks Disk Array XP128</a> 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"> <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>	May 2004