



## 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>#1</p> <p>Windows Server 2003, EE R2</p> <p>&amp;</p> <p>Windows 2000 Advanced Server, SP4</p> | <p>Max supported nodes W2K3 = 8<br/>Max supported nodes W2K = 2</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 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><br/><a href="#">SmartStart</a><br/>Ver: 7.70<br/>(Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.4)</p> | <p><b>HBA Family 1</b><br/>SCSI Port Driver: 5-5.30a2<br/>FW: 1.91a5<br/>BIOS: 1.71a0</p> <p><b>StorPort Driver:</b> 5-1.20a7<br/>FW: 1.91a5<br/>BIOS: 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><br/>SCSI Port Driver: 5-5.30a2<br/>FW: 1.91a5<br/>BIOS: 1.71a0</p> <p><b>StorPort Driver:</b> 5-1.20a7<br/>FW: 1.91a5<br/>BIOS: 1.71a0</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><br/>SCSI Port Driver: 5-5.20a10<br/>FW: 3.93a0<br/>BIOS: 1.70a3</p> <p><b>StorPort Driver:</b> 5-1.11x1<br/>FW: 3.93a0<br/>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><br/>SCSI port Driver: 9.1.3.11<br/>FW: Loaded from Driver<br/>BIOS FC Balcony: 1.48<br/>BIOS: 1.45</p> <p><b>StorPort Driver:</b> 9.1.3.16<br/>FW: Loaded from Driver<br/>BIOS FC Balcony: 1.48<br/>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:<br/>BIOS: 1.45 bl20p G3</p> <p><b>HBA Family 5</b><br/>SCSI port Driver: 9.1.3.11<br/>FW: NA<br/>BIOS: 1.48</p> <p><b>StorPort Driver:</b> 9.1.3.16<br/>FW: NA<br/>BIOS: 1.48</p> <p><a href="#">HPBALCF105</a> for BL25p and BL45p</p> <p><b>HBA Family 6</b><br/>SCSI port Driver: 5-5.30a2<br/>FW: 2.50a2<br/>BIOS: 1.71a0</p> <p><b>StorPort Driver:</b> 5-1.20a7<br/>FW: 2.50a2<br/>BIOS: 1.71a0</p> <ul style="list-style-type: none"> <li>• <a href="#">FC2142</a></li> <li>• <a href="#">FC2242</a></li> </ul> | <p><a href="#">Secure Path</a><br/>Ver: 4.0c SP2-1<br/>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><br/>StorageWorks SAN Switches (8/16 ports 2GB)<br/>FW: 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>FW: 5.2.0b</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 )<br/>FW: 5.0.5c</p> <ul style="list-style-type: none"> <li>• <a href="#">Core Switch 2/64</a></li> </ul> <p>StorageWorks SAN Switches (4GB )<br/>FW: 5.2.0b</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><br/>StorageWorks Director and Edge Switches<br/>FW: 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><br/>Cisco Switches<br/>FW: 3.1(2a)</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> <p style="text-align: right;">March 2007</p> |

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|--|---|--|--|--|--|
|  | <p><b>HBA Family 7</b><br/> <b>SCSIport Driver:</b> 5-5.30a2<br/> <b>FW:</b> 2.10a10<br/> <b>BIOS:</b> 1.71a0</p> <p><b>StorPort Driver:</b> 5-1.20a7<br/> <b>FW:</b> 2.10a10<br/> <b>BIOS:</b> 1.71a0</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><br/> <b>SCSIport Driver:</b> 5-5.30a2<br/> <b>FW:</b> 2.50a8<br/> <b>BIOS:</b> 3.00a4</p> <p><b>StorPort Driver:</b> 5-1.20a7<br/> <b>FW:</b> 2.50a8<br/> <b>BIOS:</b> 3.00a4</p> <ul style="list-style-type: none"> <li>• <a href="#">LPe1105</a></li> </ul> <p><b>HBA Family 9</b><br/> <b>SCSIport Driver:</b> 9.1.3.11<br/> <b>FW:</b> Loaded from driver<br/> <b>BIOS:</b> 1.16</p> <p><b>StorPort Driver:</b> 9.1.3.16<br/> <b>FW:</b> Loaded from driver<br/> <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><br/> <b>SCSIport Driver:</b> 9.1.3.11<br/> <b>FW:</b> Loaded from driver<br/> <b>BIOS:</b> 1.16</p> <p><b>StorPort Driver:</b> 9.1.3.16<br/> <b>FW:</b> Loaded from driver<br/> <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 11</b><br/> <b>SCSIport Driver:</b> 9.1.3.11<br/> <b>FW:</b> Loaded from driver<br/> <b>BIOS:</b> 1.26</p> <p><b>StorPort Driver:</b> 9.1.3.16<br/> <b>FW:</b> Loaded from driver<br/> <b>BIOS:</b> 1.26</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  |
|--|--|--|---|--|---|--|
| #1<br>Windows Server 2003, EE R2<br>&<br>Windows 2000 Advanced Server, SP4 | <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 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><br/><a href="#">SmartStart</a><br/>Ver: 7.60<br/>(Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.4)</p> | <p><b>HBA Family 1</b><br/>SCSI Port Driver: 5-5.30a2<br/>FW: 1.91a5<br/>BIOS: 1.71a0</p> <p>StorPort Driver: 5-1.20a7<br/>FW: 1.91a5<br/>BIOS: 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><br/>SCSI Port Driver: 9.1.3.11<br/>FW: 1.91a5<br/>BIOS for 25p/45p: 1.48<br/>BIOS for 20p/30p/35p: 1.45</p> <p>StorPort Driver: 9.1.3.16<br/>FW: 1.91a5<br/>BIOS for 25p/45p: 1.48<br/>BIOS for 20p/30p/35p: 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><br/>SCSI Port Driver: 5-5.20a10<br/>FW: 3.93a0<br/>BIOS: 1.70a3</p> <p>StorPort Driver: 5-1.11x1<br/>FW: 3.93a0<br/>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><br/>SCSI Port Driver: 9.1.3.11<br/>FW: NA<br/>BIOS: 1.45</p> <p>StorPort Driver: 9.1.3.16<br/>FW: NA<br/>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:<br/>BIOS: 1.45 bl20p G3</p> <p><b>HBA Family 5</b><br/>SCSI Port Driver: 9.1.3.11<br/>FW: NA<br/>BIOS: 1.48</p> <p>StorPort Driver: 9.1.3.16<br/>FW: NA<br/>BIOS: 1.48</p> <p><a href="#">HPBALCF105</a> for BL25p and BL45p</p> <p><b>HBA Family 6</b><br/>SCSI port Driver: 5-5.30a2<br/>FW: 2.50a6<br/>BIOS: 1.71a0</p> <p>StorPort Driver: 5-1.20a7<br/>FW: 2.50a6<br/>BIOS: 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><br/>SCSI port Driver: 5-5.30a2<br/>FW: 2.10a10<br/>BIOS: 1.71a0</p> <p>StorPort Driver: 5-1.20a7<br/>FW: 2.10a10</p> | <p><a href="#">Secure Path</a><br/>Ver: 4.0c SP2-1<br/>Raidisk.sys ver: 3.7.2.540</p> | <p><a href="#">StorageWorks MSA1000 Storage Controller FW:</a><br/>v4.48</p> | <p><b>B-Series</b><br/>StorageWorks SAN Switches (8/16 ports 2GB)<br/>FW: 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>FW: 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 )<br/>FW: 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 )<br/>FW: 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><br/>StorageWorks Director and Edge Switches<br/>FW: 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><br/>Cisco Switches<br/>FW: 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> <p>January 2007</p> |

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|--|---|--|--|--|--|
|  | <p>BIOS: 1.71a0</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><br/> <b>SCSIport Driver:</b> 5-5.30a2<br/> <b>FW:</b> 2.50a8<br/> <b>BIOS:</b> 1.70a3</p> <p><b>StorPort Driver:</b> 5-1.11x1<br/> <b>FW:</b> 2.50a8<br/> <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><br/> <b>SCSIport Driver:</b> 9.1.3.11<br/> <b>FW:</b> Loaded from driver<br/> <b>BIOS:</b> 1.16</p> <p><b>StorPort Driver:</b> 9.1.3.16<br/> <b>FW:</b> 2.50a2<br/> <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><br/> <b>SCSIport Driver:</b> 9.1.3.11<br/> <b>FW:</b> Loaded from driver<br/> <b>BIOS:</b> 1.16</p> <p><b>StorPort Driver:</b> 9.1.3.16<br/> <b>FW:</b> Loaded from driver<br/> <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><br/> <b>SCSIport Driver:</b> 9.10.13<br/> <b>FW:</b> Loaded from driver<br/> <b>BIOS:</b> 1.16</p> <p><b>StorPort Driver:</b> 9.1.0.18<br/> <b>FW:</b> Loaded from driver<br/> <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> |  |  |  |  |
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| Config  | Supported Servers*  | Host Bus Adapters (HBAs)*  | Multi Path Software   | Storage Information   | Interconnects (Switches)*  | Other  |
|---|---|--|---|---|--|--|
| #2<br>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>*Note: Servers can be used homogeneously or heterogeneously within a cluster.<br/>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><br/><a href="#">SmartStart</a><br/>Ver: 7.3<br/>(Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.3)</p> | <p><b>HBA Family 1</b><br/>StorPort Driver: 5-1.02a7<br/>FW: 1.90a4<br/>BIOS: 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><br/>SCSIport Driver: 9.0.2.11<br/>FW: NA<br/>BIOS: 1.45</p> <p>StorPort Driver: 9.0.2.16<br/>FW: NA<br/>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:<br/>BIOS: 1.45 bl20p G3</p> <p><b>HBA Family 3</b><br/>SCSIport Driver: 9.0.2.11<br/>FW: NA<br/>BIOS: 1.48</p> <p>StorPort Driver: 9.0.2.16<br/>FW: NA<br/>BIOS: 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><br/>Ver: 4.0c SP1<br/>Raidisk.sys ver: 3.7.2.460</p> <p><a href="#">Secure Path</a><br/>Ver: 4.0c SP2<br/>Raidisk.sys ver: 3.7.2.540</p> | <p><a href="#">StorageWorks MSA1000</a><br/>Storage Controller<br/>FW: v4.48</p> <p><b>MSA1000 Support Software CD ver:</b><br/>6.51-02</p> | <p><b>B-Series</b><br/>StorageWorks SAN Switches (8/16 ports 2GB)<br/>FW: 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 )<br/>FW: 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><br/>StorageWorks Director and Edge Switches<br/>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><br/>Cisco Switches<br/>FW: 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> |

June, 2005

| Config                        | Supported Servers*  | Host Bus Adapters (HBAs)*   | Multi Path Software  | Storage Information  | Interconnects (Switches)*  | Other   |
|-------------------------------|---|---|--|--|--|---|
| #3<br>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><br/><b>SmartStart</b><br/>Ver: 7.3<br/>(Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.3)</p> | <p><b>HBA Family 1</b><br/>SCSIport Driver: 5-5.10a10<br/>FW: 1.90a4<br/>BIOS: 1.70a1</p> <p>StorPort Driver: 5-1.02a7<br/>FW: 1.90a4<br/>BIOS: 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><br/>SCSIport Driver: 5-5.10a10<br/>FW: 3.92a2<br/>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 3</b><br/>SCSIport Driver: 9.0.2.11<br/>FW: NA<br/>BIOS: 1.45</p> <p>StorPort Driver: 9.0.2.16<br/>FW: NA<br/>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:<br/>BIOS: 1.45 bl20p G3</p> <p><b>HBA Family 4</b><br/>SCSIport Driver: 9.0.2.11<br/>FW: NA<br/>BIOS: 1.48</p> <p>StorPort Driver: 9.0.2.16<br/>FW: NA<br/>BIOS: 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><b>Secure Path</b><br/>Ver: 4.0c SP1<br/>Raidisk.sys<br/>ver: 3.7.2.460</p> | <p><b>StorageWorks</b><br/><b>MSA1000</b><br/>Storage<br/>Controller FW:<br/>v4.32</p> <p>Storage EMU:<br/>V1.86</p> <p>MSA1000 Support<br/>Software CD ver:<br/>6.51-02</p> | <p><b>B-Series</b><br/>StorageWorks SAN<br/>Switches (8/16 ports<br/>2GB)<br/>FW: 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<br/>Switches (&gt;32 ports )<br/>FW: 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><br/>StorageWorks Director<br/>and Edge Switches<br/>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><br/>Cisco Switches<br/>FW: 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> <p>May. 2005</p> |

| Config                        | Supported Servers*   | Host Bus Adapters (HBAs)*   | Multi Path Software  | Storage Information  | Interconnects (Switches)*   | Other   |
|-------------------------------|--|---|--|--|---|---|
| #4<br>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> </ul> | <p><b>HBA Family 1</b><br/>SCSIport Driver: 5-5.10a10<br/>FW: 1.81a2<br/>BIOS: 1.70a1</p> | <p><b>Secure Path</b><br/>Ver: 4.0c SP1<br/>Raidisk.sys<br/>ver: 3.7.2.460</p> | <p><b>StorageWorks</b><br/><b>MSA1000</b><br/>Storage<br/>Controller FW:<br/>v4.32</p> | <p><b>B-Series</b><br/>StorageWorks SAN<br/>Switches (8/16 ports<br/>2GB)<br/>FW: 3.1.2</p> | <p><a href="#">Product Page</a></p> <p><a href="#">Supporting Documentation</a></p> |

|  |   |   |  |  |  |   |
|--|---|---|--|--|--|---|
|  | <ul style="list-style-type: none"> <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><a href="#">SmartStart</a><br/>Ver: 7.1<br/>(Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.1)</p> | <p><b>StorPort Driver:</b> 5-1.02a5<br/><b>FW:</b> 1.81a2<br/><b>BIOS:</b> 1.70a1</p> <ul style="list-style-type: none"> <li>• <a href="#">FCA2404</a></li> <li>• <a href="#">FCA2404DC</a></li> </ul> <p><b>HBA Family 2</b><br/><b>SCSIport Driver:</b> 5-5.10a10<br/><b>FW:</b> 1.81a3<br/><b>BIOS:</b> 1.70a1</p> <p><b>StorPort Driver:</b> 5-1.02a5<br/><b>FW:</b> 1.81a3<br/><b>BIOS:</b> 1.70a1</p> <ul style="list-style-type: none"> <li>• <a href="#">A7387A</a></li> <li>• <a href="#">A7388A</a></li> </ul> <p><b>HBA Family 3</b><br/><b>SCSIport Driver:</b> 5-5.10a10<br/><b>FW:</b> 3.92a2<br/><b>BIOS:</b> 1.70a1</p> <p><b>StorPort Driver:</b> 5-1.02a5<br/><b>FW:</b> 3.92a2<br/><b>BIOS:</b> 1.70a1</p> <ul style="list-style-type: none"> <li>• <a href="#">FCA2101</a></li> <li>• <a href="#">FCA2355</a></li> </ul> <p><b>HBA Family 4</b><br/><b>Driver:</b> 8.2.0.73<br/><b>FW:</b> NA<br/><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><b>^For the BL20p G3 use:</b><br/><b>SCSIport Driver:</b> 9.0.0.13<br/><b>FW:</b> n/a<br/><b>BIOS:</b> 1.43</p> <p><b>HBA Family 5</b><br/><b>SCSIport Driver:</b> 9.0.0.14<br/><b>FW:</b> n/a<br/><b>BIOS:</b> 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>FCAC driver ver:</b><br/>v.5.24.0.32</p> <p><b>Storage EMU:</b><br/>V1.86</p> <p><b>MSA1000 Support Software CD ver:</b><br/>6.51-02</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 )<br/><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> <li>• <a href="#">SAN Director 2/128</a></li> </ul> <p><b>M-Series</b><br/>StorageWorks Director and Edge Switches<br/><b>FW:</b> 06.02.00-22 or 06.01.00-18</p> <ul style="list-style-type: none"> <li>• <a href="#">Director 2/64</a></li> <li>• <a href="#">Director 2/140</a></li> <li>• <a href="#">Edge Switch 2/12</a></li> <li>• <a href="#">Edge Switch 2/24</a></li> <li>• <a href="#">Edge Switch 2/32</a></li> </ul> <p><b>C-Series</b><br/>Cisco Switches<br/><b>FW:</b> 1.3.4a</p> <ul style="list-style-type: none"> <li>• <a href="#">MDS 9120</a></li> <li>• <a href="#">MDS 9140</a></li> <li>• <a href="#">MDS 9216</a></li> <li>• <a href="#">MDS 9506</a></li> <li>• <a href="#">MDS 9509</a></li> </ul> <p><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="#">MSCS Support Matrix - archive</a></p> <p>Nov. 2004</p> |
|--|---|---|--|--|--|---|

| Config                        | Supported Servers*  | Server Software   | Host Bus Adapters (HBAs)**  | Multi Path Software   | Storage Information  | Interconnects (Switches)  | Other   |
|-------------------------------|---|---|---|---|--|---|---|
| #5<br>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><br/>Ver: 7.0<br/>(Install non-RBSU servers using SmartStart 5.5 and then apply PSP 7.0)</p> | <p>HBA Family 1<br/>Driver: 5-4.82.a16<br/>FW: 3.91a1<br/>BIOS: 1.63a1</p> <ul style="list-style-type: none"> <li>•<a href="#">FCA2101</a></li> <li>•<a href="#">FCA2355</a></li> </ul> <p>HBA Family 2<br/>Driver: 5-4.82.a16<br/>FW: 1.01a2<br/>BIOS: 1.63a1</p> <ul style="list-style-type: none"> <li>•<a href="#">FCA2404</a></li> <li>•<a href="#">FCA2404DC</a></li> </ul> <p>HBA Family 3<br/>Driver: 8.2.0.73<br/>FW: NA<br/>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><br/>Ver: 4.0c<br/><a href="#">Raidisk.sys</a><br/>ver: 3.7.2.240</p> | <p><a href="#">StorageWorks MSA1000</a><br/>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<br/>CD ver : 6.52</p> | <p>StorageWorks SAN Switches (1GB)<br/>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>StorageWorks SAN Switches (8/16 ports 2GB)<br/>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>StorageWorks SAN Switches (&gt;32 ports)<br/>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>StorageWorks Director and Edge Switches<br/>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>Cisco Switches<br/>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>Other Switches and Hubs</p> <ul style="list-style-type: none"> <li>•<a href="#">MSA Hub 2/3+</a></li> </ul> <p>+Not supported with BL server line<br/>++ 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>June 2004</p> |



| Config                        | Supported Servers *   | Server Software   | Host Bus Adapters (HBAs) **  | Multi-Path Software   | Storage Information   | Interconnects (Switches)  | Other   |
|-------------------------------|---|---|--|---|---|---|---|
| #6<br>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><br/>Ver: 6.4 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 6.4)</p> | <p><a href="#">FCA2101</a><br/>Driver: 5-4.82.a16<br/>FW: 3.91a1<br/>BIOS: 1.63a1</p> <p><a href="#">FCA2214</a> +<br/>Driver: 8.2.0.73<br/>FW: NA<br/>BIOS: 1.34</p> <p><a href="#">FCA2214DC</a><br/>Driver: 8.2.0.73<br/>FW: NA<br/>BIOS: 1.34</p> <p><a href="#">FCA2404</a><br/>Driver: 5-4.82.a16<br/>FW: 1.01a2<br/>BIOS: 1.63a1</p> <p><a href="#">FC Mezzanine card</a><br/>Driver: 8.2.0.73<br/>FW: NA<br/>BIOS: 1.34</p> <p><a href="#">64-bit/33-MHz PCI-to-FC HBA (DS-KGPSA-CB)</a><br/>Driver: 5-4.82.a16<br/>FW: 3.91a1<br/>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><br/>Ver: 4.0c for Windows Workgroup Edition<br/>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<br/>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<br/>8/16 ports<br/>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<br/>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<br/>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<br/>++ 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   |
|-------------------------------|---|---|--|---|---|--|---|
| #7<br>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><br/>Ver: 6.4 (Install non-RBSU servers using SmartStart 5.5 and then apply PSP 6.4)</p> | <p><a href="#">FCA2101</a><br/>Driver: 5-4.82.a14<br/>FW: 3.91a1<br/>BIOS: 1.61.a2</p> <p><a href="#">64-bit/33-MHz PCI to FC HBA</a><br/>Driver: 5-4.82.a14<br/>FW: 3.82a1<br/>BIOS: 1.61a2</p> <p>** Note: HBAs must be used homogeneously within a cluster.</p> | <p><a href="#">Secure Path</a><br/>Ver: 4.0b for Windows Workgroup Edition<br/>Raidisk.sys ver: 3.6.3.674</p> | <p><a href="#">StorageWorks MSA1000 Storage Controller FW:</a> v2.38</p> <p>Storage EMU: V1.86</p> <p>MSA1000 Support Software CD: 6.31</p> | <p>HP 1GB SAN Switches<br/>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<br/>8/16 ports<br/>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<br/>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<br/>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="#">MSCS Support Matrix - archive</a></p> <p>June 2003</p> |