

**HDS Cluster Configuration Support Matrix  
For Microsoft Windows Server**

Operating System	Storage	Server(s)	Host Bus Adapters	Interconnect FC Switches	Multi-Path Software	Other
Windows Server 2003 x64 Enterprise Edition	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-09</p>	<p>Max supported nodes = 8</p> <p>Hewlett Packard ProLiant</p> <p>- DL360G4, DL360G5 - DL380G4, DL380G5 - DL385G2, DL580G3 - DL585, DL585G2</p>	<p>Emulex LPe1150 Driver: 1.20a7 BIOS: 1.72a1 FW: 2.50a6</p>	<p>Brocade M4700 Firmware version: 9.02</p> <p>Brocade Mi10k, M6140 Firmware version: 9.02</p> <p>McData Intrepid 6064 Firmware version: 9.02</p> <p>McData Sphereon 4500 3232, 3216, 3032, 3016 Firmware version: 9.02</p>	<p>Hitachi Dynamic Link Manager (HDLM)  Version: 5.9</p>	
Windows Server 2003 x64 Enterprise Edition	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-09</p>	<p>Max supported nodes = 8</p> <p>Hewlett Packard ProLiant</p> <p>- DL360G4, DL360G5 - DL380G4, DL380G5 - DL385G2, DL580G3 - DL585, DL585G2</p>	<p>Emulex LPe11002 Driver: 1.20a7 BIOS: 1.71a0 FW: 2.50a6</p>	<p>Brocade M4700 Firmware version: 9.02</p> <p>Brocade Mi10k, M6140 Firmware version: 9.02</p> <p>McData Intrepid 6064 Firmware version: 9.02</p> <p>McData Sphereon 4500 3232, 3216, 3032, 3016 Firmware version: 9.02</p>	<p>Hitachi Dynamic Link Manager (HDLM)  Version: 5.9</p>	
Windows Server 2003 Enterprise Edition	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-05</p>	<p>Max supported nodes = 8</p> <p>Hewlett Packard ProLiant</p> <p>- DL360G4, DL380G4 - DL580G2, DL580G3 - DL760, DL760G2 - ML370G3</p>	<p>Emulex LP10000 Driver: 1.20a3 BIOS: 1.70a3 FW: 1.91a1</p> <p>Emulex LP9002L Driver: 1.20a3 BIOS: 1.71 FW: 3.93a0</p>	<p>McData Intrepid 6140, 6064 Firmware version: 7.01</p> <p>McData Sphereon 4500 3232, 3216, 3032, 3016 Firmware version: 7.01</p> <p>McData 4700 Firmware version: 8.02</p> <p>McData i10k Firmware version: 6.03</p>	<p>Hitachi Dynamic Link Manager (HDLM)  Version: 5.8</p>	

Windows Server 2003 Enterprise Edition	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-06</p>	<p>Max supported nodes = 8</p> <p>Hewlett Packard ProLiant</p> <p>- DL380G4, DL385 - DL560, DL580G2 - DL585, DL740 - DL760G2, ML370G3</p>	<p>Emulex LightPulse - LP9802</p> <p>Driver: 1.10a4 BIOS: 1.70a3 FW: 1.91a1</p>	<p>McData 6140, 6064, 4500 3232, 3216, 3032, 3016</p> <p>Firmware version: 9.00</p> <p>Geo Distance: 10km</p>	<p>Hitachi Dynamic Link Manager (HDLM)</p> <p>Version: 5.8</p>	
Windows Server 2003 Enterprise Edition	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-05</p>	<p>Max supported nodes = 8</p> <p>Hewlett Packard ProLiant</p> <p>- DL380G4, DL385 - DL560, DL580G2 - DL585, DL740 - DL760G2, ML370G3</p>	<p>Emulex LightPulse - LP9802</p> <p>Driver: 1.10a4 BIOS: 1.70a3 FW: 1.91a1</p>	<p>McData i10k Firmware version: 6.3.1.1</p> <p>McData 6140, 6064, 4500 3232, 3216, 3032, 3016 Firmware version: 8.01</p> <p>Geo Distance: 10km</p>	<p>Hitachi Dynamic Link Manager (HDLM)</p> <p>Version: 5.7</p>	
Windows Server 2003 Enterprise Edition	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-05</p>	<p>Max supported nodes = 8</p> <p>Hewlett Packard ProLiant</p> <p>- DL380G3, DL380G4 - DL385, DL740 - DL580G2, DL580G3 - DL560, ML370G3</p>	<p>Emulex LightPulse - LP10000</p> <p>Driver: 1.10a4 BIOS: 1.70a3 FW: 1.91a1</p>	<p>Brocade SilkWorm 4100 Firmware version: 4.2</p> <p>Brocade SilkWorm 3250, 3850, 3900, 12000, 24000 Firmware version: 4.2</p> <p>Geo Distance: 10km</p>	<p>Hitachi Dynamic Link Manager (HDLM)</p> <p>Version: 5.7</p>	
Windows Server 2003 Enterprise Edition	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-05</p>	<p>Max supported nodes = 8</p> <p>Hewlett Packard ProLiant</p> <p>- DL380G3, DL380G4 - DL385, DL740 - DL580G2, DL580G3 - DL560, ML370G3</p>	<p>Emulex LightPulse - LP10000</p> <p>Driver: 1.10a4 BIOS: 1.70a3 FW: 1.91a1</p>	<p>Brocade SilkWorm 4100 Firmware version: 4.2</p> <p>Brocade SilkWorm 3250, 3850, 3900, 12000, 24000 Firmware version: 4.2</p>	<p>Hitachi Dynamic Link Manager (HDLM)</p> <p>Version: 5.7</p>	

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Windows Server 2003 Enterprise Edition	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-05</p>	<p>Max supported nodes = 8</p> <p>Hewlett Packard ProLiant</p> <p>- DL380G4, DL385 - DL560, DL580G2 - DL740, DL760G2 - DL580G3, ML370G3</p>	<p>Emulex LightPulse - LP9802</p> <p>Driver: 1.10a4 BIOS: 1.70a3 FW: 1.91a1</p>	<p>Brocade SilkWorm 4100 Firmware version: 4.4.0f</p> <p>Brocade SilkWorm 3250, 3850, 3900, 12000, 24000 Firmware version: 4.4.0f</p>	<p>Hitachi Dynamic Link Manager (HDLM)</p> <p>Version: 5.7</p>	
Windows Server 2003 Enterprise Edition	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-05</p>	<p>Max supported nodes = 8</p> <p>Hewlett Packard ProLiant</p> <p>- DL380G4, DL385 - DL560, DL580G2 - DL740, DL760G2 - ML350G2, ML370G3</p>	<p>Emulex LightPulse - LP1050 - LP9802</p> <p>Driver: 1.10a4 BIOS: 1.70a3 FW: 1.91a1</p>	<p>McData i10k Firmware version: 6.3.1.1</p> <p>McData 6064, 6140, 4500, 3232, 3216, 3032, 3016 Firmware version: 7.01</p> <p>Geo Distance: 10km</p>	<p>Hitachi Dynamic Link Manager (HDLM)</p> <p>Version: 5.7</p>	
Windows Server 2003 Enterprise Edition	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-05</p>	<p>Max supported nodes = 8</p> <p>Hewlett Packard ProLiant</p> <p>- DL380G4, DL385 - DL560, DL580G2 - DL740, DL760G2 - ML350G2, ML370G3</p>	<p>Emulex LightPulse - LP9802</p> <p>Driver: 1.10a4 BIOS: 1.70a3 FW: 1.91a1</p>	<p>McData i10k Firmware version: 6.3.1.1</p> <p>McData 6064, 6140, 4500, 3232, 3216, 3032, 3016 Firmware version: 7.01</p>	<p>Hitachi Dynamic Link Manager (HDLM)</p> <p>Version: 5.7</p>	

Windows Server 2003 Enterprise Edition	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-05</p>	<p>Max supported nodes = 8</p> <p>Hewlett Packard ProLiant</p> <p>- DL380G3, DL380G4 - DL385, DL560 - DL580G2, DL740 - ML350G2, ML370G3</p>	<p>Emulex LightPulse - LP10000 Driver: 2.23a6 BIOS: 1.70a1 FW: 1.90a4</p> <p>Emulex LightPulse - LP9002 Driver: 2.23a6 BIOS: 1.70a1 FW: 3.92a2</p>	<p>McData i10k Firmware version: 6.3.1.1</p> <p>McData 6064, 6140, 4500, 3232, 3216, 3032, 3016 Firmware version: 7.01</p> <p>Geo Distance: 10km</p>	<p>Hitachi Dynamic Link Manager (HDLM)</p> <p>Version: 5.4</p>	
Windows Server 2003 Enterprise Edition	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-05</p>	<p>Max supported nodes = 8</p> <p>Hewlett Packard ProLiant</p> <p>- DL380G3, DL380G4 - DL385, DL560 - DL580G2, DL740 - ML350G2, ML370G3</p>	<p>Emulex LightPulse - LP10000 Driver: 2.23a6 BIOS: 1.70a1 FW: 1.90a4</p> <p>Emulex LightPulse - LP9002 Driver: 2.23a6 BIOS: 1.70a1 FW: 3.92a2</p>	<p>McData i10k Firmware version: 6.3.1.1</p> <p>McData 6064, 6140, 4500, 3232, 3216, 3032, 3016 Firmware version: 7.01</p>	<p>Hitachi Dynamic Link Manager (HDLM)</p> <p>Version: 5.4</p>	
Windows Server 2003 Enterprise Edition	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-05</p>	<p>Max supported nodes = 8</p> <p>Hewlett Packard ProLiant</p> <p>- DL380G3, DL380G4 - DL580G2, DL580G3 - DL760, DL760G2 - DL560, ML370G3</p>	<p>Emulex LightPulse - LP10000</p> <p>Driver: 2.22a8 BIOS: 1.70a1 FW: 1.90a4</p>	<p>McData Intrepid 6064, 6140 Firmware version: 7.01</p> <p>McData Sphereon 4500, 3232, 3216, 3032, 3016 Firmware version: 7.01</p>	<p>Hitachi Dynamic Link Manager (HDLM)</p> <p>Version: 5.2</p>	
Windows Server 2003 Enterprise Edition	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-05</p>	<p>Max supported nodes = 8</p> <p>Hewlett Packard ProLiant</p> <p>- DL380G3, DL380G4 - DL580G2, DL580G3 - DL760, DL760G2 - DL560, ML370G3</p>	<p>Emulex LightPulse - LP9002 - LP8000</p> <p>Driver: 2.22a8 BIOS: 1.70a1 FW: 3.92a2</p>	<p>McData Intrepid 6064, 6140 Firmware version: 7.01</p> <p>McData Sphereon 4500, 3232, 3216, 3032, 3016 Firmware version: 7.01</p>	<p>Hitachi Dynamic Link Manager (HDLM)</p> <p>Version: 5.2</p>	

Windows Server 2003 Enterprise Edition	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-04</p>	<p>Max supported nodes = 8</p> <p>Hewlett Packard ProLiant</p> <p>- DL380G4, DL560 - DL760, DL760G2 - DL580G2, DL580G3 - ML370G3</p>	<p>Emulex LightPulse - LP9002</p> <p>Driver: 1.10a4 BIOS: 1.70a3 FW: 3.92a2</p>	<p>McData Intrepid 6064, 6140 Firmware version: 7.01</p> <p>McData Sphereon 4500, 3232, 3216, 3032, 3016 Firmware version: 7.01</p>	Hitachi Dynamic Link Manager (HDLM)  Version: 5.6	
Windows Server 2003 Enterprise Edition	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-04</p>	<p>Max supported nodes = 8</p> <p>Hewlett Packard ProLiant</p> <p>- DL380G3, DL380G4 - DL760, DL760G2 - DL580G2, DL580G3 - DL560, ML370G3</p>	<p>Emulex LightPulse - LP10000</p> <p>Driver: 2.22a8 BIOS: 1.70a1 FW: 1.90a4</p>	<p>McData Intrepid 6064, 6140 Firmware version: 7.01</p> <p>McData Sphereon 4500, 3232, 3216, 3032, 3016 Firmware version: 7.01</p>	Hitachi Dynamic Link Manager (HDLM)  Version: 5.2	
Windows Server 2003 Enterprise Edition	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-04</p>	<p>Max supported nodes = 8</p> <p>Hewlett Packard ProLiant</p> <p>- DL380G3, DL380G4 - DL760, DL760G2 - DL580G2, DL580G3 - DL560, ML370G3</p>	<p>Emulex LightPulse - LP8000 - LP9002</p> <p>Driver: 2.22a8 BIOS: 1.70a1 FW: 3.92a2</p>	<p>McData Intrepid 6064, 6140 Firmware version: 7.01</p> <p>McData Sphereon 4500, 3232, 3216, 3032, 3016 Firmware version: 7.01</p>	Hitachi Dynamic Link Manager (HDLM)  Version: 5.2	
Windows Server 2003 Enterprise Edition	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-04</p>	<p>Max supported nodes = 8</p> <p>Hewlett Packard ProLiant</p> <p>- DL380G4, DL560 - DL760, DL760G2 - DL580G2, DL580G3 - ML370G3</p>	<p>Emulex LightPulse - LP9002</p> <p>Driver: 1.10a4 BIOS: 1.70a3 FW: 3.92a2</p>	<p>McData Intrepid 6064, 6140 Firmware version: 7.01</p> <p>McData Sphereon 4500, 3232, 3216, 3032, 3016 Firmware version: 7.01</p>	Hitachi Dynamic Link Manager (HDLM)  Version: 5.6	

Windows 2000 Advanced Server	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-05</p>	<p>Max supported nodes = 4</p> <p>Hewlett Packard ProLiant</p> <p>- DL380G3, DL385 - DL560, DL580G2 - DL740, DL760 - ML350G2, ML370G3</p>	<p>Emulex LightPulse - LP10000 Driver: 2.23a6 BIOS: 1.70a1 FW: 1.90a4</p> <p>Emulex LightPulse - LP9002 Driver: 2.23a6 BIOS: 1.70a1 FW: 3.92a2</p>	<p>McData i10k Firmware version: 6.3.1.1</p> <p>McData 6140, 6064 4500, 3232, 3216, 3032, 3016 Firmware version: 7.01</p> <p>Geo Distance: 10km</p>	<p>Hitachi Dynamic Link Manager (HDLM)</p> <p>Version: 5.4</p>	
Windows 2000 Advanced Server	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-05</p>	<p>Max supported nodes = 4</p> <p>Hewlett Packard ProLiant</p> <p>- DL380G3, DL385 - DL560, DL580G2 - DL740, DL760 - ML350G2, ML370G3</p>	<p>Emulex LightPulse - LP10000 Driver: 2.23a6 BIOS: 1.70a1 FW: 1.90a4</p> <p>Emulex LightPulse - LP9002 Driver: 2.23a6 BIOS: 1.70a1 FW: 3.92a2</p>	<p>McData i10k Firmware version: 6.3.1.1</p> <p>McData 6140, 6064 4500, 3232, 3216, 3032, 3016 Firmware version: 7.01</p>	<p>Hitachi Dynamic Link Manager (HDLM)</p> <p>Version: 5.4</p>	
Windows 2000 Advanced Server	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-05</p>	<p>Max supported nodes = 4</p> <p>Hewlett Packard ProLiant</p> <p>- DL760, DL760G2 - DL580G2, DL380G3</p>	<p>Emulex LightPulse - LP10000</p> <p>Driver: 2.22a8 BIOS: 1.70a1 FW: 1.90a4</p>	<p>McData Intrepid 6064, 6140 Firmware version: 7.01</p> <p>McData Sphereon 4500, 3232, 3216, 3032, 3016 Firmware version: 7.01</p>	<p>Hitachi Dynamic Link Manager (HDLM)</p> <p>Version: 5.2</p>	
Windows 2000 Advanced Server	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-05</p>	<p>Max supported nodes = 4</p> <p>Hewlett Packard ProLiant</p> <p>- DL760, DL760G2 - DL580G2, DL380G3</p>	<p>Emulex LightPulse - LP9002 - LP8000</p> <p>Driver: 2.22a8 BIOS: 1.70a1 FW: 3.92a2</p>	<p>McData Intrepid 6064, 6140 Firmware version: 7.01</p> <p>McData Sphereon 4500, 3232, 3216, 3032, 3016 Firmware version: 7.01</p>	<p>Hitachi Dynamic Link Manager (HDLM)</p> <p>Version: 5.2</p>	

<p>Windows 2000 Advanced Server</p>	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-04</p>	<p>Max supported nodes = 4</p> <p>Hewlett Packard ProLiant</p> <p>- DL760, DL760G2 - DL580G2, DL380G2</p>	<p>Emulex LightPulse - LP10000</p> <p>Driver: 2.22a8 BIOS: 1.70a1 FW: 1.90a4</p>	<p>McData Intrepid 6064, 6140 Firmware version: 7.01</p> <p>McData Sphereon 4500, 3232, 3216, 3032, 3016 Firmware version: 7.01</p>	<p>Hitachi Dynamic Link Manager (HDLM)</p> <p>Version: 5.2</p>	
<p>Windows 2000 Advanced Server</p>	<p>TagmaStore Universal Storage Platform - USP1100, USP600 - USP100</p> <p>TagmaStore Network Storage Controller - NSC55</p> <p>Microcode: 50-04</p>	<p>Max supported nodes = 4</p> <p>Hewlett Packard ProLiant</p> <p>- DL760, DL760G2 - DL580G2, DL380G2</p>	<p>Emulex LightPulse - LP8000 - LP9002</p> <p>Driver: 2.22a8 BIOS: 1.70a1 FW: 3.92a2</p>	<p>McData Intrepid 6064, 6140 Firmware version: 7.01</p> <p>McData Sphereon 4500, 3232, 3216, 3032, 3016 Firmware version: 7.01</p>	<p>Hitachi Dynamic Link Manager (HDLM)</p> <p>Version: 5.2</p>	

**\*Note:** Servers can be used homogeneously or heterogeneously within a cluster