



HP Cluster Configuration Support Matrix

For Microsoft Windows 2003 Server, Datacenter and Enterprise Edition for Itanium-2 & HP StorageWorks Disk Array XP1024 and XP128

Config	Supported Servers*	Server Software	Host Bus Adapters (HBAs)**	Multi Path Software	Storage Information	Interconnects (Switches)	Other
#1 Microsoft Windows Server 2003, Itanium-2 based Servers With Service Pack 2	Max supported nodes = 8 Integrity <ul style="list-style-type: none"> • BL870c • BL860c • sx1000 • sx2000 • rx8640 • rx8620 • rx7640 • rx7620 • rx6600 • rx4640 • rx3600 • rx2660 • rx2620 • rx1620 	SmartSetup Ver: 5.5 and above	AD167A & AD168A StorPort Driver: 6-2.00a12 FW: 2.72A2 A8002A & A8003A StorPort Driver: 6-2.00a12 FW: 2.72a2 AB232A StorPort Driver: 6-2.00a12 FW: 1.91a5 AB466A & AB467A StorPort Driver: 6-2.00a12 FW: 1.91a5 403621-B21 StorPort Driver: 6-2.00a12 FW: 2.72A2 AB429A & AB379A/B StorPort Driver: 9.1.6.15 FW: 4.00.90 AD300A & AE311A StorPort Driver: 9.1.6.15 FW: 4.00.90 403619-B21 StorPort Driver: 9.1.6.15 FW: 4.00.90	Windows MPIO DSM for XP Ver 2.00.01 Secure Path Ver: 4.0c SP2	HP StorageWorks Disk Array XP1024 Controller Firmware: V21.14.37 HP StorageWorks Disk Array XP128 Controller Firmware: V21.14.37 HP StorageWorks Cluster Extension XP Ver 2.08.01	B-Series StorageWorks SAN Switches FW: 5.3.0d <ul style="list-style-type: none"> •SAN Switch 4/32 •SAN Director 2/128 •4/8 SAN Switch •4/16 SAN Switch •4/256 SAN Director B-Series StorageWorks SAN Switches FW: 5.0.5f <ul style="list-style-type: none"> •Core Switch 2/64 M-Series StorageWorks Director and Edge Switches FW: 09.03.00 <ul style="list-style-type: none"> •HP StorageWorks Director 2/64, 2/140 •HP StorageWorks Edge Switch 2/12, 2/16, 2/24, 2/32 •HP Surestore Director FC-64 C-Series Cisco Switches FW: 3.2(2C) <ul style="list-style-type: none"> •Cisco MDS 9120 •Cisco MDS 9140 •Cisco MDS 9216A •Cisco MDS 9216i •Cisco MDS 9506 •Cisco MDS 9509 •Cisco MDS 9513 	Product Page Supporting Documentation
	* Note: Servers can be used homogeneously or heterogeneously within a cluster.		Note1 : HBAs must be used homogeneously within a cluster. Note2: Some HBAs may not be supported on specific Servers.				March 2008



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<p>#2</p> <p>Microsoft Windows Server 2003, Enterprise Edition for Itanium-2 based Servers (64-bit) With Service Pack 1</p>	<p>Max supported nodes = 8</p> <p>Integrity</p> <ul style="list-style-type: none"> • sx1000 • sx2000 • rx8640 • rx8620 • rx7640 • rx7620 • rx6600 • rx4640 • rx3600 • rx2620 • rx2600 • rx1620 <p>* Note: Servers can be used homogeneously or heterogeneously within a cluster.</p>	<p>SmartSetup Ver: 4.6 and above</p>	<p>AD167A & AD168A SCSI Port Driver: 6-5.30a2 FW: 2.10a10 StorPort Driver: 6-1.20a7 FW: 2.10a10</p> <p>A8002A & A8003A StorPort Driver: 6-1.20a7 FW: 2.50a6</p> <p>AB232A ScsiPort Driver: 6-5.30a2 FW: 1.91a5 StorPort Driver: 6-1.20a7 FW: 1.91a5</p> <p>AB466A & AB467A ScsiPort Driver: 6-5.30a2 FW: 1.91a5 StorPort Driver: 6-1.20a7 FW: 1.91a5</p> <p>AB429A & AB379A/B StorPort Driver: 9.1.0.18 FW: 4.00.70</p> <p>AD300A & AE311A StorPort Driver: 9.1.0.18 FW: 4.00.70</p> <p>Note1 : HBAs must be used homogeneously within a cluster.</p> <p>Note2: Some HBAs may not be supported on specific Servers.</p>	<p>Secure Path Ver: 4.0c SP2 Hpap.sys ver: 3.2.130.0</p> <p>Secure Path Ver: 4.0c SP1 Hpap.sys ver: 3.1.130.0</p>	<p>HP StorageWorks Disk Array XP1024 Controller Firmware: V21.14.10</p> <p>HP StorageWorks Disk Array XP128 Controller Firmware: V21.14.10</p> <p>HP StorageWorks Cluster Extension XP Ver 2.05.01</p>	<p>B-Series StorageWorks SAN Switches FW: 5.1.0</p> <ul style="list-style-type: none"> • SAN Switch 4/32 • SAN Director 2/128 • 4/8 SAN Switch • 4/16 SAN Switch • 4/256 SAN Director <p>B-Series StorageWorks SAN Switches FW: 5.0.3b</p> <ul style="list-style-type: none"> • Core Switch 2/64 <p>M-Series StorageWorks Director and Edge Switches FW: 08.01.01</p> <ul style="list-style-type: none"> • HP StorageWorks Director 2/64, 2/140 • HP StorageWorks Edge Switch 2/12, 2/16, 2/24, 2/32 • HP Surestore Director FC-64 <p>C-Series Cisco Switches FW: 3.0(1)</p> <ul style="list-style-type: none"> • Cisco MDS 9120 • Cisco MDS 9140 • Cisco MDS 9216A • Cisco MDS 9216i • Cisco MDS 9506 • Cisco MDS 9509 • Cisco MDS 9513 	<p>Product Page</p> <p>Supporting Documentation</p>

January 2007



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<p>#3</p> <p>Microsoft Windows Server 2003, Enterprise Edition for Itanium-2 based Servers (64-bit) With Service Pack 1</p>	<p>Max supported nodes = 8</p> <p>Integrity</p> <ul style="list-style-type: none"> • sx1000 • sx2000 • rx8640 • rx8620 • rx7640 • rx7620 • rx4640 • rx2620 • rx2600 • rx1620 <p>* Note: Servers can be used homogeneously or heterogeneously within a cluster.</p>	<p>SmartSetup Ver: 4.0 and above</p>	<p>FC2143 & FC2243 ScsiPort Driver: 6-5.20a9 FW: 2.10a7</p> <p>Or StorPort Driver: 6-1.11x1 FW: 2.10a7</p> <p>AB232A ScsiPort Driver: 6-5.20a9 FW: 1.91a1</p> <p>Or StorPort Driver: 6-1.10.a4 FW: 1.91a1</p> <p>AB466A & AB467A ScsiPort Driver: 6-5.20a9 FW: 1.91a1</p> <p>Or StorPort Driver: 6-1.10.a4 FW: 1.91a1</p> <p>* Note: HBAs must be used homogeneously within a cluster.</p>	<p>Secure Path Ver: 4.0c SP2 Hpap.sys ver: 3.2.130.0</p> <p>Secure Path Ver: 4.0c SP1 Hpap.sys ver: 3.1.130.0</p>	<p>HP StorageWorks Disk Array XP1024 Controller Firmware: V21.14.10</p> <p>HP StorageWorks Disk Array XP128 Controller Firmware: V21.14.10</p> <p>HP StorageWorks Cluster Extension XP Ver 2.05.01</p>	<p>B-Series StorageWorks SAN Switches FW: 5.1.0</p> <ul style="list-style-type: none"> • SAN Switch 4/32 • SAN Director 2/128 • 4/8 SAN Switch • 4/16 SAN Switch • 4/256 SAN Director <p>B-Series StorageWorks SAN Switches FW: 5.0.3b</p> <ul style="list-style-type: none"> • Core Switch 2/64 <p>M-Series StorageWorks Director and Edge Switches FW: 08.01.01</p> <ul style="list-style-type: none"> • HP StorageWorks Director 2/64, 2/140 • HP StorageWorks Edge Switch 2/12, 2/16, 2/24, 2/32 • HP Surestore Director FC-64 <p>C-Series Cisco Switches FW: 3.0(1)</p> <ul style="list-style-type: none"> • Cisco MDS 9120 • Cisco MDS 9140 • Cisco MDS 9216A • Cisco MDS 9216i • Cisco MDS 9506 • Cisco MDS 9509 • Cisco MDS 9513 	<p>Product Page</p> <p>Supporting Documentation</p>

May 2006



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<p>#4</p> <p>Microsoft Windows Server 2003, Enterprise Edition for Itanium-2 based Servers (64-bit) With Service Pack 1</p>	<p>Max supported nodes = 8</p> <p>Integrity</p> <p>rx8620 rx7620 rx5670 rx4640 rx2620 rx2600 rx1620</p> <p>* Note: Servers can be used homogeneously or heterogeneously within a cluster.</p>	<p>SmartSetup Ver: 3.4 and above</p>	<p>AB232A ScsiPort Driver: 6-5.20a9 FW: 1.91a1</p> <p>Or StorPort Driver: 6-1.10.a4 FW: 1.91a1</p> <p>AB466A & AB467A ScsiPort Driver: 6-5.20a9 FW: 1.91a1</p> <p>Or StorPort Driver: 6-1.10.a4 FW: 1.91a1</p> <p>** Note: HBAs must be used homogeneously within a cluster.</p>	<p>Secure Path Ver: 4.0c SP2 Hpap.sys ver: 3.2.130.0</p> <p>Secure Path Ver: 4.0c SP1 Hpap.sys ver: 3.1.130.0</p>	<p>HP StorageWorks Disk Array XP1024 Controller Firmware: V21.13.02</p> <p>HP StorageWorks Disk Array XP128 Controller Firmware: V21.13.02</p> <p>HP StorageWorks Cluster Extension XP Ver 2.05.01</p>	<p>B-Series StorageWorks SAN Switches (8/16 ports 2GB) FW: 3.2</p> <ul style="list-style-type: none"> • SAN Switch 2/8V • MSA SAN Switch 2/8 ++ • SAN Switch 2/16 • SAN Switch 2/16V • SAN Switch 2/16N FF <p>StorageWorks SAN Switches (>32 ports) FW: 4.4.0b</p> <ul style="list-style-type: none"> • SAN Switch 2/32 • Core Switch 2/64 • SAN Director 2/128 <p>M-Series StorageWorks Director and Edge Switches FW: 07.00.00-84</p> <ul style="list-style-type: none"> • Director 2/64 • Director 2/140 • Edge Switch 2/12 • Edge Switch 2/24 • Edge Switch 2/32 <p>C-Series Cisco Switches FW: 2.01b</p> <ul style="list-style-type: none"> • MDS 9120 • MDS 9140 • MDS 9216 • MDS 9506 • MDS 9509 	<p>Product Page</p> <p>Supporting Documentation</p>

September 2005

Config	Supported Servers*	Server Software	Host Bus Adapters (HBAs)**	Multi Path Software	Storage Information	Interconnects (Switches)	Other
<p>#5</p> <p>Microsoft Windows Server 2003, Enterprise Edition for Itanium-2 based Servers (64-bit)</p>	<p>Max supported nodes = 8</p> <p>Integrity</p> <ul style="list-style-type: none"> • rx8620 • rx7620 • rx5670 • rx4640 • rx2620 • rx2600 • rx1620 <p>* Note: Servers can be used homogeneously or heterogeneously within a cluster.</p>	<p>SmartSetup Ver: 3.0 and above</p>	<p>AB232A Driver: 6-5.10a9 FW: 1.81a2</p> <p>or</p> <p>Driver: 6-5.10a10 FW: 1.81a2</p> <p>AB466A & AB467A Driver: 6-5.10a9 FW: 1.81a3</p> <p>or</p> <p>Driver: 6-5.10a10 FW: 1.81a3</p> <p>** Note: HBAs must be used homogeneously within a cluster.</p>	<p>Auto Path Version: 4.0c SP1 Hpap.sys ver: 3.1.130.0</p>	<p>HP StorageWorks Disk Array XP1024 Controller Firmware: V21.08.23</p> <p>HP StorageWorks Disk Array XP128 Controller Firmware: V21.08.23</p> <p>HP StorageWorks Cluster Extension XP Ver 2.05.01</p>	<p>B-Series StorageWorks SAN Switches (8/16 ports 2GB) FW: 3.1.3a or 3.1.3</p> <ul style="list-style-type: none"> • SAN Switch 2/8V • MSA SAN Switch 2/8 ++ • SAN Switch 2/16 • SAN Switch 2/16V • SAN Switch 2/16N FF <p>StorageWorks SAN Switches (>32 ports) FW: 4.2.2a or 4.2.2</p> <ul style="list-style-type: none"> • SAN Switch 2/32 • Core Switch 2/64 • SAN Director 2/128 <p>M-Series StorageWorks Director and Edge Switches FW: 06.02.00-22 or 06.01.00-18</p> <ul style="list-style-type: none"> • Director 2/64 • Director 2/140 • Edge Switch 2/12 • Edge Switch 2/24 • Edge Switch 2/32 <p>C-Series Cisco Switches FW: 1.3.4a</p> <ul style="list-style-type: none"> • MDS 9120 • MDS 9140 • MDS 9216 • MDS 9506 • MDS 9509 	<p>Product Page</p> <p>Supporting Documentation</p>

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