

Application Storage Automation System 7.50 Managed Servers Support

September 2009

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This matrix does not contain all configuration and resource requirements. Please refer to the appropriate ASAS 7.50 documentation for more information.

OS Vendor	Managed Platform	Architecture	Versions Supported	Notes
HP	HP-UX 11i v3	PA-RISC	All	HP-UX 11.31
HP	HP-UX 11i v3	IA-64	All	HP-UX 11.31
HP	HP-UX 11i v2	PA-RISC	All	HP-UX 11.23
HP	HP-UX 11i v2	IA-64	All	HP-UX 11.23
HP	HP-UX 11i v1	IA-64	All	HP-UX 11.11
IBM	AIX 5.3	Power	All	
IBM	AIX 5.2	Power	All	
Microsoft	Windows Server 2003 (Standard, R2, Advanced Server)	x86_32	SP1-SP2	
Microsoft	Windows Server 2000 (Standard, Advanced Server)	x86_32	SP1-SP2	
Red Hat	RHEL 4	x86_32		
Red Hat	RHEL 3	x86_32		
Sun	Solaris 10	SPARC - Sun4u		
Sun	Solaris 10	x86_32		
Sun	Solaris 10	SPARC- Sun4v (Niagara)		
Sun	Solaris 9	SPARC - Sun4u		
Sun	Solaris 9	Fujitsu SPARC		

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OS Vendor	Managed Platform	Architecture	Versions Supported	Notes
Sun	Solaris 8	SPARC - Sun4u		
Sun	Solaris 8	Fujitsu SPARC		

Application Storage Automation System 7.50 SAN Arrays Support

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Vendor	Model	Firmware	Pre-requisite Software	Notes
EMC CLARiiON	CX400 CX600 CX700 CX 300 CX 500	NaviSphere Management Server	NaviSphere CLI V6.16 NaviSphere CLI V6.19.4 NaviSphere CLI V6.22.21 NaviSphere CLI V6.24.0	Navisphere Host Agent v6.6 or 6.7, and Access Logix Software for Storage Groups are required to support LUN Mapping. Navisphere CLI should be of same level as array's storage manager, or later. EMC introduced NaviSecureCLI from 6.19.4. We will not support this in ASAS 1.1
EMC DMX	800 1000 2000 3000	5669 5670	Solutions Enabler Kit (Full Version)	Array Licenses Required: BASE, SERVER, CFGCHG, DEVMASKING
EMC Symmetrix	8000 Series 3000 Series	5x67 5x68 Latest firmware	Solutions Enabler Kit (Full Version) 6.0.3, 6.2.2, 6.3.2	Array Licenses Required: BASE, SERVER, CFGCHG, DEVMASKING
Hitachi Thunder Storage V-Series	95xxV	n/a	HiCommand Device Manager 5.1.0-03	License required: Resource Manager which includes LUN Mapping, LUN Security and Host Storage Domain
Hitachi Lightning Storage	9910 9960	n/a	HiCommand Device Manager 5.1.0-03	License required: SANTinel for LUN Security and LUN Manager for LUN Mapping
Hitachi AMS, WMS	xxxx		HiCommand Device Manager 5.1.0-03	
Hitachi Lightning Storage V Series	9970V 9980V	n/a	HiCommand Device Manager 5.1.0-03	License Required: Resource Manager which includes LUN Mapping, LUN Security and Host Storage Domain

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Vendor	Model	Firmware	Pre-requisite Software	Notes
Sun StorEdge	9990 Series		HiCommand Device Manager 5.1.0-03	License Required: Resource Manager which includes LUN Mapping, LUN Security and Host Storage Domain
Sun StorEdge	9910, 9960	n/a	HiCommand Device Manager 5.1.0-03	License required: SANTinel for LUN Security and LUN Manager for LUN Mapping
Sun StorEdge	9970, 9980		HiCommand Device Manager 5.1.0-03	License Required: Resource Manager which includes LUN Mapping, LUN Security and Host Storage Domain

Application Storage Automation System 7.50 SAN Switches Support

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Vendor	Model	Firmware	Management Software	Notes
Brocade	3250 3850 3014 3106 3900 12000 24000 48000 4100 4900 7500 5000 200E 4102/16 1018/20 4024	5.0.1d	n/a	ASAS will not support QuickLoop or FabricAssist configurations. Discover only FC based elements. Interop between McData and Brocade switch will not be supported. CreekPath carried forwarded features.
EMC Connectrix	DS-220B, DS-4100B, DS-4900B, DS5000B, Ed-48000B	5.0.1d	n/a	ASAS will not support QuickLoop or FabricAssist configurations. Discover only FC based elements. Interop between McData and Brocade switch will not be supported. CreekPath carried forwarded features. Important Configuration Information: The following configuration is not supported: 1. One Connectrix (McDATA) fabric 2. Managed by two Connectrix Manager (EFCM) 9.0 instances (each managing a different fabric switch)

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Vendor	Model	Firmware	Management Software	Notes
EMC Connectrix	DS-16M DS-16M2 DS-24M2 DS-32M DS-32M2 ED-64M ED-140M	v5.01.xx-v6.02.00	Connectrix Manager v9.0	Bridge Agent is required, and is distributed by EMC Important Configuration Information: The following configuration is not supported: 1. One Connectrix (McDATA) fabric 2. Managed by two Connectrix Manager (EFCM) 9.0 instances (each managing a different fabric switch)
McDATA (Brocade)	Intrepid 6140 6064 Sphereon 3016 3032 4500	4.01.02 - 5.03.00	EFCM 9.0	Important Configuration Information: The following configuration is NOT supported: 1. One McData fabric 2. Managed by two EFCM 8.x instances (each managing a different fabric switch)
McDATA (Brocade)	Intrepid 6140 6064 Sphereon 3016 3032 3216 3232 4300 4500	6.00.00-6.03.00		Bridge Agent Ships and Installs with EFCM
StorageTek				Any OEM Versions that correspond to supported Brocade Models

Application Storage Automation System 7.50 NAS Storage Arrays Support

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Vendor	Model	Version	OS	Notes
Network Appliance	FAS	ONTAP 7.0, 7.2	ONTAP OS	NAS and Fabric Channel

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Vendor	HBA Models	OS Supported	Notes
Emulex	LP10000ExDC, LP1050Ex, LP10000DC, LP10000,LP1050DC, LP1050, LP9802DC, LP9802, LP982, LP9402DC, LP9002L, LP9002DC, LP9000, LP952L,LP8000, LP8000DC, LP850	RHEL 3.0, 4.0 (AS/ES/WS/Desktop)	Requires HBA API version 1.4 or higher Does not support LP7000E
	LP10000DC, LP10000, LP9802DC, LP9802, LP9402DC,LP9002L, LP9002C, LP9002S, LP9002DC, LP9000,LP8000, LP8000DC, LP8000S, LP7000E	Solaris 8 Solaris 9 Solaris 10	
	LP10000ExDC, LP1050Ex, LP10000DC, LP10000,LP1050DC, LP1050, LP9802DC, LP9802, LP982,LP9402DC, LP9002L, LP9002DC, LP9000, LP952L,LP8000, LP8000DC, LP850, LP7000E	Windows 2000 Server, Advanced Server Windows 2003 Server, Advanced Server	The HBA API library that was released with Emules 5-2.22a8 FC Port driver is defective and will not supported by the Host Agent. The work-around is to upgrade to FC Port driver v5-2.30a2
	FC6227-Emulex-7000, FC6228-Emulex-9002,FC6239-Emulex-9802, FC5716-Emulex-10000,FC5759/5758-Emulex 11002/11000	AIX 5.2 AIX 5.3	
HP	Tachyon Fibre Channel, A6684A, A6685A, A5158A,A6795A	HP-UX	
	PCI-X Single-Port 4GB Fibre Channel HBA for HP-UX AB378B	HP-UX	
	PCI-X Dual-Port 4GB Fibre Channel HBA for HP-UX AB379B	HP-UX	
	Dual port 4 GB Fibre Channel, PCI-e AD300A	HP-UX	
	Single port 4 GB Fibre Channel, PCI-e AD299A	HP-UX	
	Dual Port 4 GB Fibre Channel, PCI-e AD355A	HP-UX	
	PCI-X Dual Channel 2GB Fibre Channel HBA A6826A	HP-UX	

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Vendor	HBA Models	OS Supported	Notes
HP	PCI-X Single-Port 4GB Fibre Channel HBA for HP-UX AB378B	HP-UX	
	HP PCI-X Dual-Port 4GB Fibre Channel HBA for HP-UX AB378B	HP-UX	
IBM	DF1080F9, DF1000FA	AIX 5.2 AIX 5.3	IBM OEM EC CARDS
Qlogic	QLA2200 Series, QLA2202F, QLA2204F, QLA2300 (F), QLA2302F, QLA2310 (F), (FL)	RHEL 3.0, 4.0 (AS/ES/WS/Desktop)	
	QLA2200 Series, QLA2202F, QLA2204F, QLA2300 (F), QLA2302F, QLA2310 (F), (FL), QLA2340 (L), QLA2342 (L), QLA2344	Solaris 8 Solaris 9 Solaris 10	
	QLA2200 Series, QLA2202F, QLA2204F, QLA2302F, QLA2310 (F), (FL), QLA2340 (L), QLA2342 (L), QLA2344, QLA2350, QLA2352	Windows 2000 Server, Advanced Server, Windows 2003 Server, Advanced Server	
Sun	SG-XPCI1FC-JN2 SG-CPCI2FC-JN2 (OEM by AMCC)	Solaris 8 Solaris 9 Solaris 10	Requires installation of "SUN StorEdge SAN Foundation Software", v4.4.x. See http://www.sun.com/products-n-solutions/hardware/docs/Network_Storage_Solutions/SAN/index.html

Note: the minimum requirements for supporting FCAs (HBAs) are:

- The FCA vendor provides both FCA drivers and API libraries that comply with the SNIA FCA API standard.
- SNIA HBA API library must support HBA_GetFcpTargetMapping API Call
- The driver and API libraries are installed and maintained as a matched set that came together from the specific vendor. Users must not upgrade/install drivers without also upgrading/installing the corresponding API libraries that were shipped with the driver from the vendor

Application Storage Automation System 7.50 Volume Managers Support

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Vendor	Volume Manager	Versions Supported	OS Supported	Notes
HP	HP-UX LVM	Same as OS	HP-UX 11i v1 HP-UX 11i v2 HP-UX 11i v3	PA-RISC IA-64
IBM	AIX LVM	Same as OS	AIX 5.2 AIX 5.3	
Microsoft	Native LDM	Same as OS	Windows 2000 Windows 2003	
Red Hat	LVM2	2.6 Kernels	RHEL 4	
SUN	Solstice	4.2.1	Solaris 8	SPARC, x86_32
SUN	Solaris Volume Manager	Same as OS	Solaris 9 Solaris 10	SPARC, x86_32
SUN	Solstice Disk Suite	4.2.1	Solaris 8	SPARC, x86_32
Veritas	VxVM	3.1 SP1	Windows 2000	
	Storage Foundation	4.0 4.1	Windows 2000 Windows 2003	
	VxVM	3.2 Update 1	RHEL 3 RHEL 4	
	Storage Foundation	4.0	RHEL 3 RHEL 4	
	VxVM	3.5	Solaris 8 Solaris 9 Solaris 10	

Application Storage Automation System 7.50 Volume Managers Support

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Vendor	Volume Manager	Versions Supported	OS Supported	Notes
Veritas	Storage Foundation	4.0 4.1	Solaris 8 Solaris 9 Solaris 10 HP-UX 11i v2	
	Storage Foundation	5.0	Solaris 8 Solaris 9 Solaris 10 AIX 5.2 AIX 5.3 HP-UX 11i v2 (PA-RISC and IA-64) RHEL 4	

Application Storage Automation System 7.50 Multipath Software Support

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Vendor	Volume Manager	Versions Supported	OS Supported	Notes
EMC	PowerPath		AIX 5.2 AIX 5.3	
	Power Path	3.0.0 4.0.x through 4.4.x	Solaris 8	Explicit known versions for Solaris 8 are: 4.0.0, 4.0.1, 4.0.2, 4.0.3, 4.1, 4.2.0, 4.3.0, 4.4.0
	PowerPath	3.0.4 4.1.x through 4.4.x	Solaris 9 Solaris 10	Warning: attempts to install PowerPath version 3.0.0 on Solaris 9 causes system panics. Explicit known versions for Solaris 9 are: 4.1, 4.2.0, 4.3.0, 4.4.0
	PowerPath		RHEL 3 RHEL 4	
IBM	Native MPIO	Same as OS	AIX 5.2 AIX 5.3	
HP	Native MPIO	Same as OS	HP-UX 11i v3	PA-RISC IA-64
Veritas	DMP	3.2 Update 1	RHEL 3 RHEL 4	
	DMP	4.0	RHEL 3 RHEL 4	
	DMP	3.5 4.0 4.1	Solaris 8 Solaris 9 Solaris 10	
	DMP	3.1 SP1 4.0 4.1	Windows 2000 Windows 2003	
	DMP	4.1	HP-UX 11.10 HP-UX 11i HP-UX 11i v2 HP-UX 11iv3	
	DMP	5	AIX 5.2 AIX 5.3	

Application Storage Automation System 7.50 Database/Middleware Support

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Vendor	Versions Supported	OS Supported	Notes
Oracle	9i	Solaris 8 Solaris 9 Solaris 10 Windows 2000 Windows 2003 RHEL 3 (AS/ES/WS/Desktop) RHEL 4 (AS/ES/WS/Desktop)	No ASM support
	10g	Solaris 8 Solaris 9 Solaris 10 Windows 2000 Windows 2003 RHEL 3 (AS/ES/WS/Desktop) RHEL 4 (AS/ES/WS/Desktop)	No ASM support