



# IBM System Storage DS5020 Interoperability Matrix

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## Important Disclaimer Information

The following compatibility/interoperability information provided by IBM should be used as a reference guide only, because hardware and software levels and releases may vary, and numerous hardware and software combinations are possible. IBM makes no representation or guarantee regarding the compatibility of specific hardware or software products.

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To take full advantage of the constant improvements in the IBM System Storage DS5020 series firmware, you should upgrade to the latest code levels as soon as it is available. The latest code levels are available by selecting the Product Support link from the appropriate DS5020 series model page located at: <http://www-1.ibm.com/servers/storage/disk/index.html>

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## System Storage Interoperation Center (SSIC)

For your reference, the following DS5100 and DS5300 interoperability summary information was taken from the Storage Interoperation Center (SSIC) database.

For specific details on supported host servers, operating systems, mutipathing software, clustering software and HBA/SAN, please go to the System Storage Interoperation Center (SSIC) web site: <http://www-03.ibm.com/systems/support/storage/config/ssic>

The SSIC lists interoperability for various release levels of firmware on the DS5020. It also has details on operating system service pack levels that have been tested with the DS5020 products.

## Minimum Server Hardware Requirements

Server Type	Processor	Memory
Intel Compatible Servers	Pentium II 450MHz and above, includes Intel based servers, AMD based servers, and servers manufactured by Sun for Solaris x86	512MB
SUN	250MHz SPARC	1GB
HP PA-RISC	440 MHz	1GB
IBM pSeries	All pSeries, RS/6000, RS/6000 SP servers, and Open Power series servers	

IBM System Storage DS5020 Interoperability Matrix  
**What's New in the DS5020 Interop Matrix**

update highlights - DS5020 FW 7.60 Support:  
[- New Version.](#)

**DS5020 FW 7.60 Supported SAN Switches**

SAN		
IBM F08 (3534-F08)	McDATA ED-6064 (2032-064)	Qlogic SANBox 5200
IBM F16 (2109-F16)	McDATA ES-3016 (2031-016)	Qlogic SANBox 5602
IBM F32 (2109-F32)	McDATA ES-3032 (2031-032)	Qlogic SANBox 5802
IBM H08 (2005-H08)	McDATA ES-3216 (2031-216)	Qlogic SANBox 9000
IBM H16 (2005-H16)	McDATA ES-3232 (2031-232)	
IBM M12 (2109-M12)	McDATA Intrepid 6140 (2032-140)	
IBM M14 (2109-M14)	McDATA Sphereon 4300 (2034-212)	
IBM SAN04B-R (2005-R04)	McDATA Sphereon 4500 (2031-224)	
IBM SAN04M-R (2027-R04)	Cisco MDS 9020 (2061-420)	
IBM SAN12M-1 (2026-E12)	Cisco MDS 9120 (2061-020)	
IBM SAN140M (2027-140)	Cisco MDS 9124 (2053-424)	
IBM SAN16B-2 (2005-B16)	Cisco MDS 9124 (2417-C24)	
IBM SAN16B-R (2109-A16)	Cisco MDS 9134 (2053-434)	
IBM SAN16M-2 (2026-416)	Cisco MDS 9134 (2053-S34)	
IBM SAN16M-R (2027-R16)	Cisco MDS 9140 (2061-040)	
IBM SAN24B-4 (2498-B24)	Cisco MDS 9216A (2062-D1A)	
IBM SAN24B-4 Express (2498-24E)	Cisco MDS 9216i (2062-D1H)	
IBM SAN24M-1 (2026-224)	Cisco MDS 9222i (2054-E01)	
IBM SAN256B (2109-M48)	Cisco MDS 9506 (2054-E04)	
IBM SAN256M (2027-256)	Cisco MDS 9506 (2062-D04)	
IBM SAN32B-2 (2005-B32)	Cisco MDS 9506 (2062-T04)	
IBM SAN32B-3 (2005-B5K)	Cisco MDS 9509 (2054-E07)	
IBM SAN32M-1 (2027-232)	Cisco MDS 9509 (2062-D07)	
IBM SAN32M-2 (2026-432)	Cisco MDS 9509 (2062-T07)	
IBM SAN40B-4 (2498-B40)	Cisco MDS 9513 (2054-E11)	
IBM SAN64B-2 (2005-B64)	Cisco MDS 9513 (2062-E11)	
IBM SAN768B (2499-384)		
IBM SAN80B-4 (2498-B80)		
IBM SAN10Q-2 (6918-10X)		

















## NOTES:

Note	Note Text
1	DVE is not supported by SAN Volume Controller
2	For additional configuration details and limitations view the appropriate README files <a href="http://www-03.ibm.com/systems/storage/disk/index.html">http://www-03.ibm.com/systems/storage/disk/index.html</a>
3	Intel and AMD support includes servers manufactured by Sun.
7	Windows guests using MSCS or VMotion (but not guests using MSCS and VMotion concurrently) are supported
8	ESX Server Clusters support applies to Windows 2003 RTM, but not Windows 2003 SP1.
9	Provides Metro Mirror, Global Copy, and Global Mirror capabilities
11	not supported for Chromium
12	SAN Boot support for other operating systems not listed is via the RPQ process
14	QLogic 4Gbps HBA adapters are only supported if used in conjunction with IBM DS4000 FC 4Gbps Host adapter
15	Multiple Windows Cluster configurations are supported with DS4000 (FASiT) Windows Server 2003 SP1 RADC
17	Symantec DSM only for MPIO supported
18	with OS Patch-KB950903
19	Supported only on Linux.
20	Fencing not supported
25	Windows 2003 SP2 is a superset of Windows 2003 SP1, Both SP2 and SP1 are supported.
32	Full SFRAC product including VCS clustering
33	Includes Windows Server 2008 Server Core support.
34	Only QLogic based HBAs are supported at this time.
39	VMware Tools installed on Virtual Machines.
40	AVT disabled
41	patch level Generic_125101-04
42	Patch level Generic_122300-13
44	Some Windows 2000 configurations can be supported via RPQ
45	Expansion Unit 420 is only supported on DS4200.
49	Following URL can provide more details about IBM Tivoli Storage Manager FastBack: <a href="http://www-01.ibm.com/software/tivoli/products/storage/storage-mgr-fastback/">http://www-01.ibm.com/software/tivoli/products/storage/storage-mgr-fastback/</a>
50	Supported on Windows 2003 Standard Server and Enterprise Server, Service Pack 1 or later
52	Refer to the following link for further details on IBM SVC <a href="http://www-">http://www-</a>
53	DS4000 and DS5000 family products can coexist on the same server.
54	Supported on Windows Server 2008 x64. Windows Server 2003 SP2 R1 and Windows Server 2003 SP2 R2 with Guest OSes: Windows 2003 SP2, Windows 2008 SP1, Windows 2000, Windows XP, and Windows Vista.. The x64 server must have Hyper-V capable hardware. In Hyper-V co
56	No SANBoot support at this time.
57	Supported under the following operating systems (except for Veritas environment): AIX 5.2, AIX5.3, AIX 6.1, RedHat 4.7, RedHat 5.2, RedHat 5.3, SUSE 9, SUSE 9.4, SUSE 10.2, SUSE 11, Solaris 10, Solaris 9, Windows Server 2003, Windows Server 2008, VMWare E
58	Up to 8 nodes with MPIO
59	No Direct Connect with Qlogic HBAs, QLE4060C, QLE4062C, QLA4050C, and QLA4052C at this time
60	Supported on VMware ESX 3.5 or higher and 7.xx.xx firmware level or higher. The following web site gives VMware SRM installation and configuration guidance: <a href="http://www-">http://www-</a>

### DS5020 FW 7.60 Support with System i

Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
System i Compatible Servers	6,7	IBM AIX 5.3 TL8	5				MPIO	5.3.9.2	12	TBD	Flash Copy		
							SDD Path Control Module (SDD PCM)	2.5.0.0	12		Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
							System i Compatible Servers	6,7	Red Hat Enterprise Linux 5.3	5	Cluster Suite		5.2
				Volume Copy									
				Enhanced Remote Mirroring (ERM)									
				Storage Partitions									
				Disk Encryption									
				SVC	4.2.1.5	52							
				SVC	4.3.0	52							
				Expansion Unit EXP520		5							
				Expansion Unit EXP810		5							
				Storage Manager (SM)	10.60								
				SAN Boot		57							
System i Compatible Servers	6,7	Novell SUSE SLES 11	5										
											Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
							System i Compatible Servers	6,7	Novell SUSE SLES 10 SP2	5	LifeKeeper		6.2.1
				Volume Copy									
				Enhanced Remote Mirroring (ERM)									
				Storage Partitions									
				Disk Encryption									
				SVC	4.2.1.5	52							
				SVC	4.3.0	52							
				Expansion Unit EXP520		5							
				Expansion Unit EXP810		5							
				Storage Manager (SM)	10.60								
				SAN Boot		57							
System i Compatible Servers	6,7	Novell SUSE SLES 9 SP4	5	LifeKeeper		6.2.1							
											Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
							System i Compatible Servers	6,7	IBM VIOS 1.5.2 w/client AIX 5.3	5,49			
				Volume Copy									
				Enhanced Remote Mirroring (ERM)									
				Storage Partitions									
				Disk Encryption									
				SVC	4.2.1.5	52							
				SVC	4.3.0	52							
				Expansion Unit EXP520		5							
				Expansion Unit EXP810		5							
				Storage Manager (SM)	10.60								
				SAN Boot		57							
System i Compatible Servers	6,7	IBM VIOS 1.5.2 w/client AIX 6.1	5,49								Flash Copy		
											Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
				Expansion Unit EXP810		5							
				Storage Manager (SM)	10.60								
				SAN Boot		57							
System i Compatible Servers	6,7	IBM VIOS 1.5.2 w/client SLES9.4	5,49								Flash Copy		
											Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
				Expansion Unit EXP810		5							
				Storage Manager (SM)	10.60								
				SAN Boot		57							
System i Compatible Servers	6,7	IBM VIOS 1.5.2 w/client SLES10.2	5,49								Flash Copy		
											Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
				Expansion Unit EXP810		5							
				Storage Manager (SM)	10.60								
				SAN Boot		57							
System i Compatible Servers	6,7	IBM VIOS 1.5.2 w/client RH4.7	5,49								Flash Copy		
											Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
				Expansion Unit EXP810		5							
				Storage Manager (SM)	10.60								
				SAN Boot		57							
System i Compatible Servers	6,7	IBM VIOS 1.5.2 w/client RH5.3	5,49								Flash Copy		
											Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
				Expansion Unit EXP810		5							
				Storage Manager (SM)	10.60								
				SAN Boot		57							

### DS5020 FW 7.60 Support with System i Continued...

Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
System i Compatible Servers	6,7	IBM VIOS 2.1.1 w/client AIX5.3	v,49				MPIO	6.1.2.2		TBD	Flash Copy		
		IBM VIOS 2.1.1 w/client AIX6.1	v,49								Volume Copy		
		IBM VIOS 2.1.1 w/client IBMi V6R1	v,49								Enhanced Remote Mirroring (ERM)		
		IBM VIOS 2.1.1 w/client RH4.7	v,49								Storage Partitions		
		IBM VIOS 2.1.1 w/client RH5.3	v,49								Disk Encryption		
		IBM VIOS 2.1.1 w/client SLES 9.4	v,49								SVC	4.2.1.5	52
		IBM VIOS 2.1.1 w/client SLES 10.2	v,49								SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM Power 595		IBM AIX 5.3 TL8	15				MPIO	5.3.9.2		TBD	Flash Copy		
		IBM AIX 5.3 TL9	15				SDD Path Control Module (SDD PCM)	2.5.0.0			Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM Power 595		IBM AIX 6.1 TL2	15				MPIO	6.1.2.2		TBD	Flash Copy		
							SDD Path Control Module (SDD PCM)	2.5.0.0			Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM Power 595		Red Hat Enterprise Linux 4.7	15	Cluster Suite	4.7		RDAC	MPP-09.03.0 B05.02 14		TBD	Flash Copy		
				LifeKeeper	6.2.1						Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM Power 595		Red Hat Enterprise Linux 4.8	15	Cluster Suite	4.7		RDAC	MPP-09.03.0 B05.02 14		TBD	Flash Copy		
				LifeKeeper	6.2.1						Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM Power 595		Red Hat Enterprise Linux 5.3	15	Cluster Suite	5.2		RDAC	MPP-09.03.0 C05.02 14		TBD	Flash Copy		
											Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57

DS5020 FW 7.60 Support with System i Continued...

Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM Power 595		Novell SUSE SLES 10 SP2	15	LifeKeeper	6.2.1		RDAC	MPP-09.03.0 C05.02 14		TBD	Flash Copy		
											Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM Power 595		Novell SUSE SLES 11	15				RDAC	MPP-09.03.0 C05.02 14		TBD	Flash Copy		
											Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM Power 595		IBM VIOS 1.5.2 w/client AIX 5.3	15,49				MPIO	5.3.8.5		TBD	Flash Copy		
		IBM VIOS 1.5.2 w/client AIX 6.1	15,49								Volume Copy		
		IBM VIOS 1.5.2 w/client SLES9.4	15,49								Enhanced Remote Mirroring (ERM)		
		IBM VIOS 1.5.2 w/client SLES10.2	15,49								Storage Partitions		
		IBM VIOS 1.5.2 w/client RH4.7	15,49								Disk Encryption		
		IBM VIOS 1.5.2 w/client RH5.3	15,49								SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM Power 595		IBM VIOS 2.1.1 w/client AIX5.3	15,49				MPIO	6.1.2.2		TBD	Flash Copy		
		IBM VIOS 2.1.1 w/client AIX6.1	15,49								Volume Copy		
		IBM VIOS 2.1.1 w/client IBMi V6R1	15,49								Enhanced Remote Mirroring (ERM)		
		IBM VIOS 2.1.1 w/client RH4.7	15,49								Storage Partitions		
		IBM VIOS 2.1.1 w/client RH5.3	15,49								Disk Encryption		
		IBM VIOS 2.1.1 w/client SLES 9.4	15,49								SVC	4.2.1.5	52
		IBM VIOS 2.1.1 w/client SLES 10.2	15,49								SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM POWER 570 (9406-MMA)		IBM AIX 5.3 TL8	15				MPIO	5.3.9.2	21	TBD	Flash Copy		
IBM Power 520 (9407-M15)		IBM AIX 5.3 TL9	15				SDD Path Control Module (SDD PCM)	2.5.0.0	21		Volume Copy		
IBM Power 520 (9408-M25)											Enhanced Remote Mirroring (ERM)		
IBM Power 550 (9409-M50)											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM POWER 570 (9406-MMA)		IBM AIX 6.1 TL2	15				MPIO	6.1.2.2	21	TBD	Flash Copy		
IBM Power 520 (9407-M15)							SDD Path Control Module (SDD PCM)	2.5.0.0	21		Volume Copy		
IBM Power 520 (9408-M25)											Enhanced Remote Mirroring (ERM)		
IBM Power 550 (9409-M50)											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57

DS5020 FW 7.60 Support with System i Continued...

Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM POWER 570 (9406-MMA)		Red Hat Enterprise Linux 4.7	15	Cluster Suite	4.7		RDAC	MPP-09.03.0 B05.02 14		TBD	Flash Copy		
IBM Power 520 (9407-M15)				LifeKeeper	6.2.1						Volume Copy		
IBM Power 520 (9408-M25)											Enhanced Remote Mirroring (ERM)		
IBM Power 550 (9409-M50)											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM POWER 570 (9406-MMA)		Red Hat Enterprise Linux 4.8	15	Cluster Suite	4.7		RDAC	MPP-09.03.0 B05.02 14		TBD	Flash Copy		
IBM Power 520 (9407-M15)				LifeKeeper	6.2.1						Volume Copy		
IBM Power 520 (9408-M25)											Enhanced Remote Mirroring (ERM)		
IBM Power 550 (9409-M50)											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM POWER 570 (9406-MMA)		Red Hat Enterprise Linux 5.3	15	Cluster Suite	5.2		RDAC	MPP-09.03.0 C05.02 14		TBD	Flash Copy		
IBM Power 520 (9407-M15)											Volume Copy		
IBM Power 520 (9408-M25)											Enhanced Remote Mirroring (ERM)		
IBM Power 550 (9409-M50)											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM POWER 570 (9406-MMA)		Novell SUSE SLES 10 SP2	15	LifeKeeper	6.2.1		RDAC	MPP-09.03.0 C05.02 14		TBD	Flash Copy		
IBM Power 520 (9407-M15)											Volume Copy		
IBM Power 520 (9408-M25)											Enhanced Remote Mirroring (ERM)		
IBM Power 550 (9409-M50)											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM POWER 570 (9406-MMA)		Novell SUSE SLES 11	15				RDAC	MPP-09.03.0 C05.02 14		TBD	Flash Copy		
IBM Power 520 (9407-M15)											Volume Copy		
IBM Power 520 (9408-M25)											Enhanced Remote Mirroring (ERM)		
IBM Power 550 (9409-M50)											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM POWER 570 (9406-MMA)		IBM VIOS 1.5.2 w/client AIX 5.3	15,49				MPIO	5.3.8.5		TBD	Flash Copy		
IBM Power 520 (9407-M15)		IBM VIOS 1.5.2 w/client AIX 6.1	15,49								Volume Copy		
IBM Power 520 (9408-M25)		IBM VIOS 1.5.2 w/client SLES9.4	15,49								Enhanced Remote Mirroring (ERM)		
IBM Power 550 (9409-M50)		IBM VIOS 1.5.2 w/client SLES10.2	15,49								Storage Partitions		
		IBM VIOS 1.5.2 w/client RH4.7	15,49								Disk Encryption		
		IBM VIOS 1.5.2 w/client RH5.3	15,49								SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57



## DS5020 FW 7.60 Support with System i Continued...

Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM POWER 570 (9406-MMA)		IBM VIOS 2.1.1 w/client AIX5.3	15,49				MPIO	6.1.2.2.		TBD	Flash Copy		
IBM Power 520 (9407-M15)		IBM VIOS 2.1.1 w/client AIX6.1	15,49								Volume Copy		
IBM Power 520 (9408-M25)		IBM VIOS 2.1.1 w/client IBMi V6R1	15,49								Enhanced Remote Mirroring (ERM)		
IBM Power 550 (9409-M50)		IBM VIOS 2.1.1 w/client RH4.7	15,49								Storage Partitions		
		IBM VIOS 2.1.1 w/client RH5.3	15,49								Disk Encryption		
		IBM VIOS 2.1.1 w/client SLES 9.4	15,49								SVC	4.2.1.5	52
		IBM VIOS 2.1.1 w/client SLES 10.2	15,49								SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57

## NOTES:

Note	Note Text
	1 TL5 or later only
	2 DVE support for AIX requires AIX 5.2 or later
	3 Dynamic function support is not available for SUSE Linux Enterprise Server 8 for pSeries.
	4 DVE is not supported by SAN Volume Controller
	5 For additional configuration details and limitations view the appropriate README files <a href="http://www-03.ibm.com/systems/storage/disk/index.html">http://www-03.ibm.com/systems/storage/disk/index.html</a>
	6 System i support includes Open Power series servers.
	9 Provides Metro Mirror, Global Copy, and Global Mirror capabilities
	10 SAN Boot support for other operating systems not listed is via the RPQ process
	11 Supported for host attachment only. SLES 11 can not be used to manage the DS4000/DS5000/DS5020 Storage Subsystems at this time.
	12 RDAC multipathing required for multipath configurations
	13 With Patch-52S_DS345K.081020.epkg.Z
	14 With Patch-iz49529.epkg
	15 For additional configuration details and limitations view the appropriate README files <a href="http://www-03.ibm.com/systems/storage/disk/index.html">http://www-03.ibm.com/systems/storage/disk/index.html</a>
	16 AIX 6.1 Service Pack 2 required
	16 with Patch-iz49529.epkg
	17 with Patch-iz49526.epkg
	18 with Patch-IZ36221.081107.epkg.Z
	20 eFix IZ13627 required after installing AIX 6.1 and Service Pack 2
	21 NVRAM change required to support MPIO - Reference instructions in required eFix
	23 Fix Pack 10.1 required
	24 Supported on AIX levels : 6.1, 5.3 and 5.2
	25 RDAC support only. No MPIO support at this time.
	32 Full SFRAC product including VCS clustering
	33 Operating Systems. LoP: RH5.1, SLES10.1, MPIO: AIX 5.3, AIX 6.1
	40 AVT disabled
	45 Expansion Unit 420 is only supported on DS4200.
	48 MPIO only. No RDAC support at this time
	49 Refer to the following link for details on IBM VIOS: <a href="http://www14.software.ibm.com/webapp/set2/sas/f/vios/home.html">http://www14.software.ibm.com/webapp/set2/sas/f/vios/home.html</a> ,
	52 Refer to the following link for further details on IBM SVC <a href="http://www-03.ibm.com/systems/storage/software/virtualization/svc/">http://www-03.ibm.com/systems/storage/software/virtualization/svc/</a>
	53 DS4000 and DS5000 family products can coexist on the same server.
	57 Supported under the following operating systems (except for Veritas environment): AIX 5.2, AIX5.3, AIX 6.1, RedHat 4.7, RedHat 5.2, RedHat 5.3, SUSE 9, SUSE 9.4, SUSE 10.2, SUSE 11, Solaris 10, Solaris 9, Windows Server 2003, Windows Server 2008, VMWare ESX 3.5 U3, Microsoft Cluster Server for Windows Server 2003 and for Windows Server 2008, VIOS 2.1
	58 Supported only in VIOS 2.1.0 at this time
	59 No Direct Connect with QLogic HBAs, QLE4060C, QLE4062C, QLA4050C, and QLA4052C at this time

## DS5020 FW 7.60 Support with Power Servers

Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM Power 595 (9119-FHA)		IBM AIX 5.3 TL8	15				MPIO	5.3.9.2	21,40	TBD	Flash Copy		
IBM Power 520 (8203-E4A)		IBM AIX 5.3 TL9	15				SDD Path Control Module (SDD PCM)	2.5.0.0	21,40		Volume Copy		
IBM Power 550 (8204-E8A)		AIX 5.3 TL10 SP2	15								Enhanced Remote Mirroring (ERM)		
IBM Power 560 (8234-EMA)											Storage Partitions		
IBM Power 570 (9117-MMA)											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520	5	
											Expansion Unit EXP810	5	
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM Power 595 (9119-FHA)		IBM AIX 5.3 TL8	15				MPIO	5.3.9.2	21,40	TBD	GPFS	3.2	
IBM Power 520 (8203-E4A)		IBM AIX 5.3 TL9	15				SDD Path Control Module (SDD PCM)	2.5.0.0	21,40				
IBM Power 550 (8204-E8A)		AIX 5.3 TL10 SP2	15										
IBM Power 560 (8234-EMA)													
IBM Power 570 (9117-MMA)													
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM Power 595 (9119-FHA)		IBM AIX 6.1 TL2	15				MPIO	6.1.2.2	21,40	TBD	Flash Copy		
IBM Power 520 (8203-E4A)		AIX 6.1 TL3 SP1	15				SDD Path Control Module (SDD PCM)	2.5.0.0	21,40		Volume Copy		
IBM Power 550 (8204-E8A)											Enhanced Remote Mirroring (ERM)		
IBM Power 560 (8234-EMA)											Storage Partitions		
IBM Power 570 (9117-MMA)											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520	5	
											Expansion Unit EXP810	5	
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM Power 595 (9119-FHA)		IBM AIX 6.1 TL2	15				MPIO	6.1.2.2	21,40	TBD	GPFS	3.2	
IBM Power 520 (8203-E4A)		AIX 6.1 TL3 SP1	15				SDD Path Control Module (SDD PCM)	2.5.0.0	21,40				
IBM Power 550 (8204-E8A)													
IBM Power 560 (8234-EMA)													
IBM Power 570 (9117-MMA)													
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM Power 595 (9119-FHA)		Red Hat Enterprise Linux 4.7	15	Cluster Suite	4.7		RDAC	MPP-09.03.0B05.0214	40	TBD	Flash Copy		
IBM Power 520 (8203-E4A)				LifeKeeper	6.2.1						Volume Copy		
IBM Power 550 (8204-E8A)											Enhanced Remote Mirroring (ERM)		
IBM Power 560 (8234-EMA)											Storage Partitions		
IBM Power 570 (9117-MMA)											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520	5	
											Expansion Unit EXP810	5	
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM Power 595 (9119-FHA)		Red Hat Enterprise Linux 4.8	15	Cluster Suite	4.7		RDAC	MPP-09.03.0B05.0214	40	TBD	Flash Copy		
IBM Power 520 (8203-E4A)				LifeKeeper	6.2.1						Volume Copy		
IBM Power 550 (8204-E8A)											Enhanced Remote Mirroring (ERM)		
IBM Power 560 (8234-EMA)											Storage Partitions		
IBM Power 570 (9117-MMA)											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520	5	
											Expansion Unit EXP810	5	
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM Power 595 (9119-FHA)		Red Hat Enterprise Linux 5.3	15	Cluster Suite	5.2		RDAC	MPP-09.03.0C05.0214	40	TBD	Flash Copy		
IBM Power 520 (8203-E4A)											Volume Copy		
IBM Power 550 (8204-E8A)											Enhanced Remote Mirroring (ERM)		
IBM Power 560 (8234-EMA)											Storage Partitions		
IBM Power 570 (9117-MMA)											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520	5	
											Expansion Unit EXP810	5	
											Storage Manager (SM)	10.60	
											SAN Boot		57

IBM System Storage DS5020 Interoperability Matrix  
 DS5020 FW 7.60 Support with Power Servers Continued...

Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
IBM Power 595 (9119-FHA)		Red Hat Enterprise Linux 5.3	15	Cluster Suite	5.2		RDAC	MPP-09.03.0C05.0214	40	TBD	GPFS	3.2	
IBM Power 520 (8203-E4A)													
IBM Power 550 (8204-E8A)													
IBM Power 560 (8234-EMA)													
IBM Power 570 (9117-MMA)													
IBM Power 595 (9119-FHA)		Novell SUSE SLES 9 SP4	15	LifeKeeper	6.2.1		RDAC	MPP-09.03.0B05.0214	40	TBD	Flash Copy		
IBM Power 520 (8203-E4A)											Volume Copy		
IBM Power 550 (8204-E8A)											Enhanced Remote Mirroring (ERM)		
IBM Power 560 (8234-EMA)											Storage Partitions		
IBM Power 570 (9117-MMA)											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
IBM Power 595 (9119-FHA)		Novell SUSE SLES 9 SP4	15	LifeKeeper	6.2.1		RDAC	MPP-09.03.0B05.0214	40	TBD	GPFS	3.2	
IBM Power 520 (8203-E4A)													
IBM Power 550 (8204-E8A)													
IBM Power 560 (8234-EMA)													
IBM Power 570 (9117-MMA)													
IBM Power 595 (9119-FHA)		Novell SUSE SLES 10 SP2	15	LifeKeeper	6.2.1		RDAC	MPP-09.03.0C05.0214	40	TBD	Flash Copy		
IBM Power 520 (8203-E4A)											Volume Copy		
IBM Power 550 (8204-E8A)											Enhanced Remote Mirroring (ERM)		
IBM Power 560 (8234-EMA)											Storage Partitions		
IBM Power 570 (9117-MMA)											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
IBM Power 595 (9119-FHA)		Novell SUSE SLES 10 SP2	15	LifeKeeper	6.2.1		RDAC	MPP-09.03.0C05.0214	40	TBD	GPFS	3.2	
IBM Power 520 (8203-E4A)													
IBM Power 550 (8204-E8A)													
IBM Power 560 (8234-EMA)													
IBM Power 570 (9117-MMA)													
IBM Power 595 (9119-FHA)		Novell SUSE SLES 11	15, 11				RDAC	MPP-09.03.0C05.0214	40	TBD	Flash Copy		
IBM Power 520 (8203-E4A)											Volume Copy		
IBM Power 550 (8204-E8A)											Enhanced Remote Mirroring (ERM)		
IBM Power 560 (8234-EMA)											Storage Partitions		
IBM Power 570 (9117-MMA)											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
IBM Power 595 (9119-FHA)		IBM VIOS 1.5.2 w/client AIX 5.3	15,49							TBD	Flash Copy		
IBM Power 520 (8203-E4A)		IBM VIOS 1.5.2 w/client AIX 6.1	15,49								Volume Copy		
IBM Power 550 (8204-E8A)		IBM VIOS 1.5.2 w/client SLES9.4	15,49								Enhanced Remote Mirroring (ERM)		
IBM Power 560 (8234-EMA)		IBM VIOS 1.5.2 w/client SLES10.2	15,49								Storage Partitions		
IBM Power 570 (9117-MMA)		IBM VIOS 1.5.2 w/client RH4.7	15,49								Disk Encryption		
		IBM VIOS 1.5.2 w/client RH5.3	15,49								SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
IBM Power 595 (9119-FHA)		IBM VIOS 2.1.1 w/client AIX5.3	15,49							TBD	Flash Copy		
IBM Power 520 (8203-E4A)		IBM VIOS 2.1.1 w/client AIX6.1	15,49								Volume Copy		
IBM Power 550 (8204-E8A)		IBM VIOS 2.1.1 w/client IBMi V6R1	15,49								Enhanced Remote Mirroring (ERM)		
IBM Power 560 (8234-EMA)		IBM VIOS 2.1.1 w/client RH4.7	15,49								Storage Partitions		
IBM Power 570 (9117-MMA)		IBM VIOS 2.1.1 w/client RH5.3	15,49								Disk Encryption		
		IBM VIOS 2.1.1 w/client SLES 9.4	15,49								SVC	4.2.1.5	52
		IBM VIOS 2.1.1 w/client SLES 10.2	15,49								SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57

## DS5020 FW 7.60 Support with Power Servers Continued...

## NOTES:

Note	Note Text
1	TL5 or later only
2	DVE support for AIX requires AIX 5.2 or later
3	Dynamic function support is not available for SUSE Linux Enterprise Server 8 for pSeries.
4	DVE is not supported by SAN Volume Controller
5	For additional configuration details and limitations view the appropriate README files <a href="http://www-03.ibm.com/systems/storage/disk/index.html">http://www-03.ibm.com/systems/storage/disk/index.html</a>
6	System i support includes Open Power series servers.
9	Provides Metro Mirror, Global Copy, and Global Mirror capabilities
10	SAN Boot support for other operating systems not listed is via the RPQ process
11	Supported for host attachment only. SLES 11 can not be used to manage the DS4000/DS5000/DS5020 Storage Subsystems at this time.
12	RDAC multipathing required for multipath configurations
13	With Patch-52S_DS345K.081020.epkg.Z
14	AIX 5.3N supports AIX MPIO 5.3.9.2; AIX5.3-TL9+SP2+APAR IZ52471 supports AIX MPIO 5.3.9.2
15	For additional configuration details and limitations view the appropriate README files <a href="http://www-03.ibm.com/systems/storage/disk/index.html">http://www-03.ibm.com/systems/storage/disk/index.html</a>
16	with Patch-iz49529.epkg
17	AIX 6.1B supports AIX MPIO 6.1.2.2; AIX6.1-TL2+SP2+APAR IZ49639 supports AIX MPIO 6.1.3.0
18	with Patch-IZ36221.081107.epkg.Z
21	NVRAM change required to support MPIO - Reference instructions in required eFix
23	Fix Pack 10.1 required
24	Supported on AIX levels : 6.1, 5.3 and 5.2
25	RDAC support only. No MPIO support at this time.
32	Full SFRAC product including VCS clustering
33	Operating Systems. LoP: RH5.1, SLES10.1, MPIO: AIX 5.3, AIX 6.1
40	AVT disabled
45	Expansion Unit 420 is only supported on DS4200.
48	MPIO only. No RDAC support at this time
49	Refer to the following link for details on IBM VIOS: <a href="http://www14.software.ibm.com/webapp/set2/sas/f/vios/home.html">http://www14.software.ibm.com/webapp/set2/sas/f/vios/home.html</a> ,
50	Supported on CL 07.36.12 or later
52	Refer to the following link for further details on IBM SVC <a href="http://www-03.ibm.com/systems/storage/software/virtualization/svc/">http://www-03.ibm.com/systems/storage/software/virtualization/svc/</a>
53	DS4000 and DS5000 family products can coexist on the same server.
55	If running NPIV refer to the multipathing document for detailed support. Customer is responsible for making sure that the multipathing is loaded in the client OS.
58	Supported only in VIOS 2.1.0 at this time
59	No Direct Connect with Qlogic HBAs, QLE4060C, QLE4062C, QLA4050C, and QLA4052C at this time

## DS5020 FW 7.60 Support with BladeCenter

Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
BladeCenter HS12 8014		Red Hat Enterprise Linux 4.7	11	Cluster Suite	4.7		RDAC	MPP-09.03.0B05.0214	40	TBD	Flash Copy		
BladeCenter HS12 8028				LifeKeeper	6.4.0						Volume Copy		
BladeCenter HS20 8832				LifeKeeper	6.3.0						Enhanced Remote Mirroring (ERM)		
BladeCenter HS20 8843											Storage Partitions		
BladeCenter HS20 7981											Disk Encryption		
BladeCenter HS21 8853											SVC	4.2.1.5	52
BladeCenter HS21 XM 7995											SVC	4.3.0	52
BladeCenter HS40 8839											Expansion Unit EXP520		5
BladeCenter LS20 8850											Expansion Unit EXP810		5
BladeCenter LS21 7971											Storage Manager (SM)	10.60	
BladeCenter LS22 7901											SAN Boot		57
BladeCenter LS41 7972													
BladeCenter LS42 7902													
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
BladeCenter HS12 8014		Red Hat Enterprise Linux 4.8	11	Cluster Suite	4.7		RDAC	MPP-09.03.0B05.0214	40	TBD	Flash Copy		
BladeCenter HS12 8028				LifeKeeper	6.4.0						Volume Copy		
BladeCenter HS20 8832				LifeKeeper	6.3.0						Enhanced Remote Mirroring (ERM)		
BladeCenter HS20 8843											Storage Partitions		
BladeCenter HS20 7981											Disk Encryption		
BladeCenter HS21 8853											SVC	4.2.1.5	52
BladeCenter HS21 XM 7995											SVC	4.3.0	52
BladeCenter HS40 8839											Expansion Unit EXP520		5
BladeCenter LS20 8850											Expansion Unit EXP810		5
BladeCenter LS21 7971											Storage Manager (SM)	10.60	
BladeCenter LS22 7901											SAN Boot		57
BladeCenter LS41 7972													
BladeCenter LS42 7902													
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
BladeCenter HS12 8014		Red Hat Enterprise Linux 5.3	11	Cluster Suite	4.7		RDAC	MPP-09.03.0C05.0214	40	TBD	Flash Copy		
BladeCenter HS12 8028				LifeKeeper	6.4.0						Volume Copy		
BladeCenter HS20 8832				LifeKeeper	6.4.2						Enhanced Remote Mirroring (ERM)		
BladeCenter HS20 8843											Storage Partitions		
BladeCenter HS20 7981											Disk Encryption		
BladeCenter HS21 8853											SVC	4.2.1.5	52
BladeCenter HS21 XM 7995											SVC	4.3.0	52
BladeCenter HS40 8839											Expansion Unit EXP520		5
BladeCenter LS20 8850											Expansion Unit EXP810		5
BladeCenter LS21 7971											Storage Manager (SM)	10.60	
BladeCenter LS22 7901											SAN Boot		57
BladeCenter LS41 7972													
BladeCenter LS42 7902													
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
BladeCenter HS12 8014		Novell SUSE SLES 10 SP2	11	LifeKeeper	6.4.2		RDAC	MPP-09.03.0C05.0214	40	TBD	Flash Copy		
BladeCenter HS12 8028				LifeKeeper	6.4.0						Volume Copy		
BladeCenter HS20 8832				LifeKeeper	6.3.0						Enhanced Remote Mirroring (ERM)		
BladeCenter HS20 8843											Storage Partitions		
BladeCenter HS20 7981											Disk Encryption		
BladeCenter HS21 8853											SVC	4.2.1.5	52
BladeCenter HS21 XM 7995											SVC	4.3.0	52
BladeCenter HS40 8839											Expansion Unit EXP520		5
BladeCenter LS20 8850											Expansion Unit EXP810		5
BladeCenter LS21 7971											Storage Manager (SM)	10.60	
BladeCenter LS22 7901											SAN Boot		57
BladeCenter LS41 7972													
BladeCenter LS42 7902													
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
BladeCenter HS12 8014		Novell SUSE SLES 9 SP4	11	LifeKeeper	6.4.0		RDAC	MPP-09.03.0B05.0214	40	TBD	Flash Copy		
BladeCenter HS12 8028				LifeKeeper	6.3.0						Volume Copy		
BladeCenter HS20 8832											Enhanced Remote Mirroring (ERM)		
BladeCenter HS20 8843											Storage Partitions		
BladeCenter HS20 7981											Disk Encryption		
BladeCenter HS21 8853											SVC	4.2.1.5	52
BladeCenter HS21 XM 7995											SVC	4.3.0	52
BladeCenter HS40 8839											Expansion Unit EXP520		5
BladeCenter LS20 8850											Expansion Unit EXP810		5
BladeCenter LS21 7971											Storage Manager (SM)	10.60	
BladeCenter LS22 7901											SAN Boot		57
BladeCenter LS41 7972													
BladeCenter LS42 7902													
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
BladeCenter HS12 8014		Microsoft Windows Server 2003 SP2 R2	11,25,	Cluster Service	58		MPIO Device Specific Module (DSM)	01.03.0305.0013	40	TBD	Flash Copy		
BladeCenter HS12 8028							MPIO		40		Volume Copy		
BladeCenter HS20 8832											Enhanced Remote Mirroring (ERM)		
BladeCenter HS20 8843											Storage Partitions		
BladeCenter HS20 7981											Disk Encryption		
BladeCenter HS21 8853											SVC	4.2.1.5	52
BladeCenter HS21 XM 7995											SVC	4.3.0	52
BladeCenter HS40 8839											Expansion Unit EXP520		5
BladeCenter LS20 8850											Expansion Unit EXP810		5
BladeCenter LS21 7971											Storage Manager (SM)	10.60	
BladeCenter LS22 7901											SAN Boot		57
BladeCenter LS41 7972											IBM Tivoli Storage Manager FastBack	5.5.2	49,
BladeCenter LS42 7902											Hyper-V		50

## DS5020 FW 7.60 Support with BladeCenter Continued...

Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
BladeCenter HS12 8014		Microsoft Windows Server 2008 SP1 R1	11,33	Cluster Service		58	MPIO Device Specific Module (DSM)	01.03.0305.0013	40	TBD	Flash Copy		
BladeCenter HS12 8028							MPIO		40		Volume Copy		
BladeCenter HS20 8832											Enhanced Remote Mirroring (ERM)		
BladeCenter HS20 8843											Storage Partitions		
BladeCenter HS20 7981											Disk Encryption		
BladeCenter HS21 8853											SVC	4.2.1.5	52
BladeCenter HS21 XM 7995											SVC	4.3.0	52
BladeCenter HS40 8839											Expansion Unit EXP520		5
BladeCenter LS20 8850											Expansion Unit EXP810		5
BladeCenter LS21 7971											Storage Manager (SM)	10.60	
BladeCenter LS22 7901											SAN Boot		57
BladeCenter LS41 7972											Hyper-V		54
BladeCenter LS42 7902													
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
BladeCenter HS12 8014		Sun Solaris 10 U6	11	Cluster	3.2		Veritas Volume Manager with DMP	5.0 MP1	40	TBD	Flash Copy		
BladeCenter HS12 8028		Sun Solaris 10 U7	11	Veritas Cluster Server	5.0		MPxIO		40		Volume Copy		
BladeCenter HS20 8832											Enhanced Remote Mirroring (ERM)		
BladeCenter HS20 8843											Storage Partitions		
BladeCenter HS20 7981											Disk Encryption		
BladeCenter HS21 8853											SVC	4.2.1.5	52
BladeCenter HS21 XM 7995											SVC	4.3.0	52
BladeCenter HS40 8839											Expansion Unit EXP520		5
BladeCenter LS20 8850											Expansion Unit EXP810		5
BladeCenter LS21 7971											Storage Manager (SM)	10.60	
BladeCenter LS22 7901											SAN Boot		57
BladeCenter LS41 7972													
BladeCenter LS42 7902													
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
BladeCenter JS20 8842		IBM AIX 5.3 TL8	11				MPIO	5.3.9.2	40	TBD	Flash Copy		
BladeCenter JS21 7988		IBM AIX 5.3 TL9	11				SDD Path Control Module (SDD PCM)	2.5.0.0	40		Volume Copy		
BladeCenter JS21 8844											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
BladeCenter JS20 8842		Red Hat Enterprise Linux 4.7	11	Cluster Suite	4.7		RDAC	MPP-09.03.0B05.0214	40	TBD	Flash Copy		
BladeCenter JS21 7988				LifeKeeper	6.2.1						Volume Copy		
BladeCenter JS21 8844											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
BladeCenter JS20 8842		Red Hat Enterprise Linux 4.8	11	Cluster Suite	4.7		RDAC	MPP-09.03.0B05.0214	40	TBD	Flash Copy		
BladeCenter JS21 7988				LifeKeeper	6.2.1						Volume Copy		
BladeCenter JS21 8844											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
BladeCenter JS20 8842		Red Hat Enterprise Linux 5.3	11	Cluster Suite	5.2		RDAC	MPP-09.03.0C05.0214	40	TBD	Flash Copy		
BladeCenter JS21 7988											Volume Copy		
BladeCenter JS21 8844											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57

## DS5020 FW 7.60 Support with BladeCenter Continued...

Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
BladeCenter JS20 8842		Novell SUSE SLES 10 SP2	11	LifeKeeper	6.2.1		RDAC	MPP-09.03.0C05.0214	40	TBD	Flash Copy		
BladeCenter JS21 7988											Volume Copy		
BladeCenter JS21 8844											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
BladeCenter JS20 8842		Novell SUSE SLES 9 SP4	11	LifeKeeper	6.2.1		RDAC	MPP-09.03.0B05.0214	40	TBD	Flash Copy		
BladeCenter JS21 7988											Volume Copy		
BladeCenter JS21 8844											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
BladeCenter JS22 7988		IBM AIX 5.3 TL8	11				MPIO	5.3.9.2	40	TBD	Flash Copy		
BladeCenter JS21 7988		IBM AIX 5.3 TL9	11				SDD Path Control Module (SDD PCM)	2.5.0.0	40		Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
BladeCenter JS22 7988		IBM AIX 6.1 TL2	11				MPIO	6.1.2.2	40	TBD	Flash Copy		
BladeCenter JS12 7988							SDD Path Control Module (SDD PCM)	2.5.0.0	40		Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
BladeCenter JS22 7988		Red Hat Enterprise Linux 4.7	11	Cluster Suite	4.7		RDAC	MPP-09.03.0B05.0214	40	TBD	Flash Copy		
BladeCenter JS12 7988				LifeKeeper	6.2.1						Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
BladeCenter JS22 7988		Red Hat Enterprise Linux 4.8	11	Cluster Suite	4.7		RDAC	MPP-09.03.0B05.0214	40	TBD	Flash Copy		
BladeCenter JS12 7988				LifeKeeper	6.2.1						Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
BladeCenter JS22 7988		Red Hat Enterprise Linux 5.3	11	Cluster Suite	5.2		RDAC	MPP-09.03.0C05.0214	40	TBD	Flash Copy		
BladeCenter JS12 7988											Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57

DS5020 FW 7.60 Support with BladeCenter Continued...

Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
BladeCenter JS22 7998		Novell SUSE SLES 10 SP2	11	LifeKeeper	6.2.1		RDAC	MPP-09.03.0C05.0214	40	TBD	Flash Copy		
BladeCenter JS12 7998											Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
BladeCenter JS22 7998		Novell SUSE SLES 9 SP4	11	LifeKeeper	6.2.1		RDAC	MPP-09.03.0B05.0214	40	TBD	Flash Copy		
BladeCenter JS12 7998											Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57



## NOTES:

Note	Note Text
4	Fencing not supported
5	TL5 or later only
6	DVE support for AIX requires AIX 5.2 or later
7	DVE is not supported by SAN Volume Controller
11	For additional configuration details and limitations view the appropriate README files <a href="http://www-03.ibm.com/systems/storage/disk/index.html">http://www-03.ibm.com/systems/storage/disk/index.html</a>
12	FRU number 13N2208 (or Option PN 13N2203) and JS20 8842-21X MT/MN are not compatible. This combination is not supported for Linux on Power releases
13	With Patch-52S_DS345K.081020.epkg.Z
14	With Patch-iz49529.epkg
16	with Patch-iz49529.epkg
17	with Patch-iz49526.epkg
18	with OS Patch-KB950903
23	Refer to the following link for Updates and Fixes: <a href="http://www14.software.ibm.com/webapp/set2/sas/f/vios/download/home.html">http://www14.software.ibm.com/webapp/set2/sas/f/vios/download/home.html</a>
24	Fix Pack 10.1 required
25	Windows 2003 SP2 is a superset of Windows 2003 SP1, Both SP2 and SP1 are supported.
26	Supported on AIX levels : 6.1, 5.3 and 5.2
27	RDAC support only. No MPIO support at this time.
28	Operating Systems. LoP: RH5.1, SLES10.1, MPIO: AIX 5.3, AIX 6.1, Linux on Intel: RedHat 4.6 and 5.1; SLES 9SP4 and 10SP1
29	Windows guests using MSCS or VMotion (but not guests using MSCS and VMotion concurrently) are supported
30	ESX Server Clusters support applies to Windows 2003 RTM, but not Windows 2003 SP1.
31	Symantec DSM only for MPIO supported
32	Full SFRAC product including VCS clustering
33	Includes Windows Server 2008 Server Core support.
35	Only QLogic based HBAs are supported at this time.
38	Microsoft Cluster Services is not supported at this time
39	VMware Tools installed on Virtual Machines.
40	AVT disabled
41	patch level Generic_125101-04
42	'Patch level Generic_122300-13
44	Some Windows 2000 configurations can be supported via RPQ
48	MPIO only. No RDAC or SDD support at this time
49	Following URL can provide more details about IBM Tivoli Storage Manager FastBack: <a href="http://www-01.ibm.com/software/tivoli/products/storage/storage-mgr-fastback/">http://www-01.ibm.com/software/tivoli/products/storage/storage-mgr-fastback/</a>
50	Supported on Windows 2003 Standard Server and Enterprise Server, Service Pack 1 or later
52	Refer to the following link for further details on IBM SVC <a href="http://www-03.ibm.com/systems/storage/software/virtualization/svc/">http://www-03.ibm.com/systems/storage/software/virtualization/svc/</a>
53	DS4000 and DS5000 family products can coexist on the same server.
54	Supported on Windows Server 2008 x64. Windows Server 2003 SP2 R1 and Windows Server 2003 SP2 R2 with Guest OSes: Window2003 SP2, Window2008 SP1, Windows 2000, Windows XP, and Windows Vista.. The x64 server must have Hyper-V capable hardware. In Hyper-V configurations with DS4000 or DS5000 attached only LSI-DSM is supported. Customers can not have any other DSM running, exceptions to this restriction require RPQ support to confirm compatibility. In any supported Windows configuration when running the LSI-DSM, customers can also have compatibility with SDD-DSM but it is dependant upon the level of SDD-DSM. Please check with your IBM field support team or submit an RPQ for compatibility guidance if multiple IBM storage devices and multiple DSMs must co-exist.
57	Supported under the following operating systems (except for Veritas environment): AIX 5.2, AIX5.3, AIX 6.1, RedHat 4.7, RedHat 5.2, RedHat 5.3, SUSE 9, SUSE 9.4, SUSE 10.2, SUSE 11, Solaris 10, Solaris 9, Windows Server 2003, Windows Server 2008, VMWare ESX 3.5 U3, Microsoft Cluster Server for Windows Server 2003 and for Windows Server 2008, VIOS 2.1
58	Up to 8 nodes with MPIO
59	No Direct Connect with Qlogic HBAs, QLE4060C, QLE4062C, QLA4050C, and QLA4052C at this time
60	Supported on VMware ESX 3.5 or higher and 7.xx.xx firmware level or higher. The following web site gives VMware SRM installation and configuration guidance: <a href="http://www-03.ibm.com/support/techdocs/atsmastr.nsf/WebIndex/WP101443">http://www-03.ibm.com/support/techdocs/atsmastr.nsf/WebIndex/WP101443</a>



DS5020 FW 7.60 Support with Intel & AMD Continued...

Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
x86 & x86_64 Compatible Servers.	3,4	Microsoft Windows Server 2003 SP2 R2	2,25	Cluster Service		58	MPIO Device Specific Module (DSM)	01.03.0305.0013	40	TBD	Flash Copy		
							MPIO		40		Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
											IBM Tivoli Storage Manager FastBack	5.5.2	49, 50
											Hyper-V		54
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
x86 & x86_64 Compatible Servers.	3,4	Microsoft Windows Server 2008 SP1 R1	2,33	Cluster Service		58	MPIO Device Specific Module (DSM)	01.03.0305.0013	40	TBD	Flash Copy		
							MPIO		40		Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
											Hyper-V		54
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
x86 & x86_64 Compatible Servers.	3,4	Wmware ESX 3.5 U3 w/guest Windows 2008	2,7,8,39	Cluster Service			VMware ESX Server Failover with MRU policy		40	TBD	Flash Copy		
		Wmware ESX 3.5 U3 w/guest Windows 2003	2,7,8,39								Volume Copy		
		Wmware ESX 3.5 U3 w/guest Red Hat EL 5.2	2,7,8,39								Enhanced Remote Mirroring (ERM)		
		Wmware ESX 3.5 U3 w/guest Red Hat EL 4.7	2,7,8,39								Storage Partitions		
		Wmware ESX 3.5 U3 w/guest SLES 10.2	2,7,8,39								Disk Encryption		
		Wmware ESX 3.5 U3 w/guest SLES 9.4	2,7,8,39								SVC	4.2.1.5	52
		Wmware ESX 3.5 U3 w/guest Solaris 10(X86) U5	2,7,8,39								SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
x86 & x86_64 Compatible Servers.	3,4	Wmware ESX 3.5 U3 w/guest Windows 2008	2,7,8,39	Cluster Service			VMware ESX Server Failover with MRU policy		40	TBD	VMware Site Recovery Manager (SRM)		60
		Wmware ESX 3.5 U3 w/guest Windows 2003	2,7,8,39										
		Wmware ESX 3.5 U3 w/guest Red Hat EL 5.2	2,7,8,39										
		Wmware ESX 3.5 U3 w/guest Red Hat EL 4.7	2,7,8,39										
		Wmware ESX 3.5 U3 w/guest SLES 10.2	2,7,8,39										
		Wmware ESX 3.5 U3 w/guest SLES 9.4	2,7,8,39										
		Wmware ESX 3.5 U3 w/guest Solaris 10(X86) U5	2,7,8,39										
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
x86 & x86_64 Compatible Servers.	3,4	Sun Solaris 10 U6	2	Cluster	3.2		Veritas Volume Manager with DMP	5.0 MP1	40	TBD	Flash Copy		
		Sun Solaris 10 U7	2	Veritas Cluster Server	5.0		MPxIO		40		Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	
											SAN Boot		57

## DS5020 FW 7.60 Support with Intel &amp; AMD Continued...

## NOTES:

Note	Note Text
1	DVE is not supported by SAN Volume Controller
2	For additional configuration details and limitations view the appropriate README files <a href="http://www-03.ibm.com/systems/storage/disk/index.html">http://www-03.ibm.com/systems/storage/disk/index.html</a>
3	Intel and AMD support includes servers manufactured by Sun.
7	Windows guests using MSCS or VMotion (but not guests using MSCS and VMotion concurrently) are supported
8	ESX Server Clusters support applies to Windows 2003 RTM, but not Windows 2003 SP1.
9	Provides Metro Mirror, Global Copy, and Global Mirror capabilities
11	not supported for Chromium
12	SAN Boot support for other operating systems not listed is via the RPQ process
14	QLogic 4Gbps HBA adapters are only supported if used in conjunction with IBM DS4000 FC 4Gbps Host adapter BIOS
15	Multiple Windows Cluster configurations are supported with DS4000 (FASTT) Windows Server 2003 SP1 RADC level 08403500 or later
17	Symantec DSM only for MPIO supported
18	with OS Patch-KB950903
19	Supported only on Linux.
20	Fencing not supported
25	Windows 2003 SP2 is a superset of Windows 2003 SP1, Both SP2 and SP1 are supported.
32	Full SFRAC product including VCS clustering
33	Includes Windows Server 2008 Server Core support.
34	Only QLogic based HBAs are supported at this time.
39	VMware Tools installed on Virtual Machines.
40	AVT disabled
41	patch level Generic 125101-04
42	Patch level Generic 122300-13
44	Some Windows 2000 configurations can be supported via RPQ
49	Following URL can provide more details about IBM Tivoli Storage Manager FastBack: <a href="http://www-01.ibm.com/software/tivoli/products/storage/storage-mgr-fastback/">http://www-01.ibm.com/software/tivoli/products/storage/storage-mgr-fastback/</a>
50	Supported on Windows 2003 Standard Server and Enterprise Server, Service Pack 1 or later
52	Refer to the following link for further details on IBM SVC <a href="http://www-03.ibm.com/systems/storage/software/virtualization/svc/">http://www-03.ibm.com/systems/storage/software/virtualization/svc/</a>
53	DS4000 and DS5000 family products can coexist on the same server.
54	Supported on Windows Server 2008 x64. Windows Server 2003 SP2 R1 and Windows Server 2003 SP2 R2 with Guest OSes: Window2003 SP2, Window2008 SP1, Windows 2000, Windows XP, and Windows Vista.. The x64 server must have Hyper-V capable hardware. In Hyper-V configurations with DS4000 or DS5000 attached only LSI-DSM is supported. Customers can not have any other DSM running, exceptions to this restriction require RPQ support to confirm compatibility. In any supported Windows configuration when running the LSI-DSM, customers can also have compatibility with SDD-DSM but it is dependant upon the level of SDD-DSM. Please check with your IBM field support team or submit an RPQ for compatibility guidance if multiple IBM storage devices and multiple DSMs must co-exist.
56	No SANBoot support at this time.
57	Supported under the following operating systems (except for Veritas environment): AIX 5.2, AIX5.3, AIX 6.1, RedHat 4.7, RedHat 5.2, RedHat 5.3, SUSE 9, SUSE 9.4, SUSE 10.2, SUSE 11, Solaris 10, Solaris 9, Windows Server 2003, Windows Server 2008, VMWare ESX 3.5 U3, Microsoft Cluster Server for Windows Server 2003 and for Windows Server 2008, VIOS 2.1
58	Up to 8 nodes with MPIO
59	No Direct Connect with Qlogic HBAs, QLE4060C, QLE4062C, QLA4050C, and QLA4052C at this time
60	Supported on VMware ESX 3.5 or higher and 7.xx.xx firmware level or higher. The following web site gives VMware SRM installation and configuration guidance: <a href="http://www-03.ibm.com/support/techdocs/atsmastr.nsf/WebIndex/WP101443">http://www-03.ibm.com/support/techdocs/atsmastr.nsf/WebIndex/WP101443</a>



### DS5020 FW 7.60 Support with SUN Continued...

Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
Sun SPARC Enterprise M4000	3	Sun Solaris 10 U7	4	Cluster	3.2		Veritas Volume Manager with DMP	5.0 MP1	40	TBD	Flash Copy		
Sun SPARC Enterprise M5000	3			Veritas Cluster Server	5.0		MPxIO		40		Volume Copy		
Sun SPARC Enterprise M8000	3										Enhanced Remote Mirroring (ERM)		
Sun SPARC Enterprise M9000	3										Storage Partitions		
Enterprise 10000	3										Disk Encryption		
Enterprise 220R	3										SVC	4.2.1.5	52
Enterprise 250	3										SVC	4.3.0	52
Enterprise 420R	3										Expansion Unit EXP520		5
Enterprise 450	3										Expansion Unit EXP810		5
Enterprise 3000	3										Storage Manager (SM)	10.60	
Enterprise 4000	3										SAN Boot		57
Enterprise 5000	3												
Enterprise 6000	3												
Enterprise 3500	3												
Enterprise 4500	3												
Enterprise 5500	3												
Enterprise 6500	3												
Netra 1125	3												
SPARCcenter/SPARCserver 1000	3												
SPARCcenter/SPARCserver 1000E	3												
SPARCcenter/SPARCserver 2000	3												
SPARCcenter/SPARCserver 2000E	3												
Sun Fire 12000	3												
Sun Fire 15000	3												
Sun Fire 3800	3												
Sun Fire 4800	3												
Sun Fire 4810	3												
Sun Fire 6800	3												
Sun Fire 6900	3												
Sun Fire E20K	3												
Sun Fire E25K	3												
Sun Fire E2900	3												
Sun Fire E4900	3												
Sun Fire E6900	3												
Sun Fire T1000	3												
Sun Fire T2000	3												
Sun Fire V120	3												
Sun Fire V1280	3												
Sun Fire V210	3												
Sun Fire V240	3												
Sun Fire V250	3												
Sun Fire V280R	3												
Sun Fire V440	3												
Sun Fire V480	3												
Sun Fire V490	3												
Sun Fire V880	3												
Sun Fire V890	3												
Sun Ultra 20	3												
Sun Ultra 30	3												
Sun Ultra 5	3												
Sun Ultra 60	3												
Sun Ultra 80	3												

### NOTES:

Note	Note Text
2	For additional configuration details and limitations view the appropriate README files <a href="http://www-03.ibm.com/systems/storage/disk/index.html">http://www-03.ibm.com/systems/storage/disk/index.html</a>
3	For a complete list of supported servers you may access the following URL: <a href="http://www.sun.com/software/cluster/osp/ibm_interop.xml">http://www.sun.com/software/cluster/osp/ibm_interop.xml</a>
4	For additional configuration details and limitations view the appropriate README files <a href="http://www-03.ibm.com/systems/storage/disk/index.html">http://www-03.ibm.com/systems/storage/disk/index.html</a>
40	AVT disabled
52	Refer to the following link for further details on IBM SVC <a href="http://www-03.ibm.com/systems/storage/software/virtualization/svc/">http://www-03.ibm.com/systems/storage/software/virtualization/svc/</a>
53	DS4000 and DS5000 family products can coexist on the same server.
57	Supported under the following operating systems (except for Veritas environment): AIX 5.2, AIX5.3, AIX 6.1, RedHat 4.7, RedHat 5.2, RedHat 5.3, SUSE 9, SUSE 9.4, SUSE 10.2, SUSE 11, Solaris 10, Solaris 9, Windows Server 2003, Windows Server 2008, VMWare ESX 3.5 U3, Microsoft Cluster Server for Windows Server 2003 and for Windows Server 2008, VIOS 2.1

### DS5020 FW 7.60 Support with HP

Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
HP Compatible Servers	1	HP-UX 11iv2 (11.23)	5,6,15	MC/Service Guard	A-11.18.00		LVM	R11.23.007	41	TBD	Flash Copy		
							SDD	1.8.0.2	41		Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	54
Server	Note	OS	Note	Clustering	Level	Note	Multipath	Level	Note	HBA	Feature	Version	Note
HP Compatible Servers	1	HP-UX 11iv3 (11.31)	5,6,15	MC/Service Guard	A-11.18.00		HP TPGS	B.11.31.0908	40	TBD	Flash Copy		
											Volume Copy		
											Enhanced Remote Mirroring (ERM)		
											Storage Partitions		
											Disk Encryption		
											SVC	4.2.1.5	52
											SVC	4.3.0	52
											Expansion Unit EXP520		5
											Expansion Unit EXP810		5
											Storage Manager (SM)	10.60	54

### NOTES:

Note	Note Text
1	Support for HP-Itanium based servers with HP-UX 11.23 may be requested via RPO process
3	Intermix Activation" feature must be applied when DS4800 disk array system includes both Fibre Channel and SATA disk drives types, within the combination of attached EXP810, EXP710, EXP100 expansion units.
5	For additional configuration details and limitations view the appropriate README files <a href="http://www-03.ibm.com/systems/storage/disk/index.html">http://www-03.ibm.com/systems/storage/disk/index.html</a>
6	Storage Manager is not supported on HP-UX Itanium servers
7	Provides Metro Mirror, Global Copy, and Global Mirror capabilities
11	not supported for Chromium
13	Service Guard is not supported on 11i v3 configuration at this time. No SDD Support at this time
14	No cluster support at this time.
15	Requires September 2008 release
40	AVT disabled
41	AVT enabled
45	Expansion Unit 420 is only supported on DS4200.
52	Refer to the following link for further details on IBM SVC <a href="http://www-03.ibm.com/systems/storage/software/virtualization/svc/">http://www-03.ibm.com/systems/storage/software/virtualization/svc/</a>
53	DS4000 and DS5000 famliy products can coexist on the same server.
54	It can run on both Itanium and PA-RISC based servers.