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StorNext 3.5.3 Supported Operating Systems and Platforms

Operating System	Kernel or Release	Platform	MDC Server	File System SAN Client	Distributed LAN Server	File System LAN Client	Storage Manager / SNAPI
Windows 2003 Server	R2 SP2	x86 32-bit	✓*	✓	✓*	✓	
		x86 64-bit	✓	✓	✓	✓	
Windows XP	SP2	x86 32-bit		✓		✓	
		x86 64-bit		✓		✓	
	SP3	x86 32-bit		✓		✓	
		x86 64-bit		✓		✓	
Windows Vista	SP1	x86 32-bit		✓		✓	
		x86 64-bit		✓		✓	
	SP2	x86 32-bit		✓		✓	
		x86 64-bit		✓		✓	
Windows 2008	SP1	x86 32-bit		✓		✓	
		x86 64-bit	✓	✓	✓	✓	
	R2	x86 32-bit		✓		✓	
		x86 64-bit	✓	✓	✓	✓	
	SP2	x86 32-bit		✓		✓	
		x86 64-bit	✓	✓	✓	✓	
Windows 7	N / A	x86 32-bit		✓		✓	
		x86 64-bit		✓		✓	
RHEL 4 ‡	2.6.9-67.EL (Update 6) †	x86 32-bit	✓	✓	✓	✓	
	2.6.9-78.EL (Update 7) †	x86 32-bit	✓	✓	✓	✓	
	2.6.9-89 EL (Update 8)	x86 32-bit	✓	✓	✓	✓	✓**
	2.6.9-67.EL (Update 6) †	x86 64-bit	✓	✓	✓	✓	
	2.6.9-78.EL (Update 7) †	x86 64-bit	✓	✓	✓	✓	
	2.6.9-89 EL (Update 8)	x86 64-bit	✓	✓	✓	✓	✓**

Notes: When adding StorNext Storage Manager to a StorNext File System environment, the metadata controller (MDC) must be moved to a supported platform. If you attempt to install and run a StorNext 3.5.3 server that is not supported, you do so at your own risk. Quantum strongly recommends against installing non-supported servers.

* MDC, DLS, and SM not recommended due to memory management issues.

** Storage Manager should not be used with earlier service packs for RHEL4 due to a critical tape rewind problem in the RHEL4 kernel.

† All releases of RHEL4 and RHEL5 except RHEL4 Update 8 and RHEL5 Update 4 have a possible silent data corruption issue as documented in Product Alert #20. Quantum recommends that users migrate to RHEL4 Update 8 or RHEL5 Update 4 as soon as possible. Also, note that the “Xen” virtualization software is not supported for RHEL 4 and RHEL 5.

‡ HBA multipath customers: please verify with your HBA vendor that your current multipath driver is supported for any planned Linux OS version/update/service pack level. If your driver is not supported for your planned Linux OS version/update/service pack, the StorNext client or server may not be functional after your Linux upgrade.

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StorNext 3.5.3 Components
Supported Operating Systems and Platforms (Continued)

Operating System	Kernel or Release	Platform	MDC Server	File System SAN Client	Distributed LAN Server	File System LAN Client	Storage Manager / SNAPI
RHEL 5 ‡	2.6.18-53.EL (Update 1) †	x86 64-bit	✓	✓	✓	✓	✓
	2.6.18-92.EL (Update 2) †	x86 64-bit	✓	✓	✓	✓	✓
	2.6.18-128 (Update 3) †	x86 64-bit	✓	✓	✓	✓	✓
	2.6.18-164.EL (Update 4)	x86 64-bit	✓	✓	✓	✓	✓
SLES 10 †† ‡ ***	2.6.16-46-0.12 (SP1)	x86 32-bit		✓		✓	
	2.6.16.60-0.27 (SP2)	x86 32-bit		✓		✓	
	2.6.16.60-0.54.5 (SP3)	x86 32-bit		✓		✓	
	2.6.16-46-0.12 (SP1)	x86 64-bit	✓	✓	✓	✓	✓
	2.6.16.60-0.27 (SP2)	x86 64-bit	✓	✓	✓	✓	✓
	2.6.16.60-0.54.5 (SP3)	x86 64-bit	✓	✓	✓	✓	✓
	2.6.16-46-0.12 (SP1)	Itanium 64-bit	✓	✓			
	2.6.16.60-0.27 (SP2)	Itanium 64-bit	✓	✓			
	2.6.16.60-0.54.5 (SP3)	Itanium 64-bit	✓	✓			
SLES 11 ‡ ***	2.6.27.19-5	x86 64-bit		✓		✓	
		Itanium 64-bit	✓	✓			
Sun Solaris 10	Generic 120011-14	sparc 64-bit	✓	✓			✓
	Generic 127128-11	Opteron x86 64-bit		✓		✓	
		Intel x86 64-bit		✓		✓	
SGI-IRIX	6.5.30	64-bit MIPS		✓			

† All releases of RHEL4 and RHEL5 except RHEL4 Update 8 and RHEL5 Update 4 have a possible silent data corruption issue as documented in Product Alert #20. Quantum recommends that users migrate to RHEL4 Update 8 or RHEL5 Update 4 as soon as possible. Also, note that the "Xen" virtualization software is not supported for RHEL 4 and RHEL 5.

†† SLES 10 SP1 (and earlier) and SP2 kernels earlier than 37 are sensitive to the same silent data corruption issue documented in Product Alert #20. The problem has been fixed in SP2 that includes level 2.6.16.60-0.37_f594963d, in SLES 10 SP3, and in the SLES 11 releases. There is no recommended workaround at this time.

‡ HBA multipath customers: please verify with your HBA vendor that your current multipath driver is supported for any planned Linux OS version/update/service pack level. If your driver is not supported for your planned Linux OS version/update/service pack, the StorNext client or server may not be functional after your Linux upgrade.

*** A "roll" of a particular digit is not indicative that a new SLES service pack has been declared by Novell. The kernel revisions listed in this document are typically (but not always), the first kernel revision of the service pack. Later revisions within the service pack are typically supported.

StorNext 3.5.3 Components
Supported Operating Systems and Platforms (Continued)

Operating System	Kernel or Release	Platform	MDC Server	File System SAN Client	Distributed LAN Server	File System LAN Client	Storage Manager / SNAPI
IBM AIX	5.3	64-bit Power Architecture		✓			
HP-UX	11i v2	Itanium 64-bit		✓			

Note: StorNext support will transition from HP-UX 11i v2 to 11i v3, and from IBM AIX 5.3 to 6.1 on a future date.

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StorNext 3.5.3 Supported Libraries and Tape Drives

Vendor Library Family	Libraries	Enforced Minimum / Recently Tested Library Firmware Level	Drive Types	Enforced Minimum / Recently Tested Drive Firmware Level	Notes
Quantum / ADIC	Scalar i500	Minimum: 140G	IBM LTO-1		Library firmware upgrade may be required for LTO-3 WORM support 420G.GS00400
			IBM LTO-2		
			IBM LTO-3		
			IBM LTO-4		
			BM LTO-3 WORM		
			IBM LTO-4 WORM		
			HP LTO-4		
	Scalar i2000	Minimum: 120A Minimum (IBM LTO-3, IBM LTO-3 WORM): 300A Minimum (IBM LTO-4, IBM LTO-4 WORM) 540A Minimum: 7404 i/o blades and i6.5 require 590A	IBM LTO-1		
			IBM LTO-2		
			IBM LTO-3	See library firmware requirement	
			IBM LTO-4		
			IBM LTO-3 WORM		
			IBM LTO-4 WORM		
			HP LTO-4		
			HP LTO-4 WORM		
			DLT-S4	Minimum: 1F1F	
	Scalar 24	Minimum: 107A.GY0002	IBM LTO-1		Not including WORM
			IBM LTO-2		
			IBM LTO-3		
			IBM LTO-4		
	Scalar i40/i80	Minimum: 101G.GS005 Recently Tested: 101G.GS005	HP LTO-4		
	Scalar 50	Minimum: 002A	HP LTO-4		
	Scalar 100	Minimum: 2.05.0003	IBM LTO-1		Not including WORM NOTE: 2.10.0013 firmware is not to be used
			IBM LTO-2		
			IBM LTO-3		
			AIT-2		
	Scalar 1000	Minimum: 3.00.0017	IBM LTO-2		Must use SDLC/DAS, SDLC/SCSI Target Mode or Native SCSI
			IBM 3590B1A		
			AIT-1		
	Scalar 10000	Minimum: 110A.00001 Minimum (IBM LTO-3, Minimum (IBM LTO-4,	IBM LTO-1		Must use SDLC/DAS, SDLC/SCSI Target Mode or Native SCSI
			IBM LTO-2		
			IBM LTO-3	See library firmware requirement	
			IBM LTO-4		
			IBM LTO-3 WORM		
			AIT-2		
			AIT-2 WORM		

Notes: Before using DLT cleaning with DLT-S4 or SDLT 600 drives, configure the library (Scalar i2000 or PX720) to disable reporting of the media ID. If media ID reporting is not disabled, StorNext will not recognize the cleaning media (SDLT type 1).

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StorNext 3.5.3 Supported Libraries and Tape Drives (Continued)

Vendor Library Family	Libraries	Enforced Minimum / Recently Tested Library Firmware Level	Drive Types	Enforced Minimum / Recently Tested Drive Firmware Level	Notes
Quantum / ADIC	PX500	Minimum: 001A	HP LTO-3		Not including WORM 30.0
	PX720	Minimum 4.00	HP LTO-2		Not including WORM
			HP LTO-3		
			DLT-S4		
	DXI 7500	Recently Tested: 05.02.084	Supported emulations include: DLT7000, SDLT320, SDLT600, DLT-S4, Quantum/Certance LTO-2, 3, HP LTO-1, 2, 3, 4, IBM LTO-1, 2, 3, 4		
Dell	PV136T	Minimum: 3.11	IBM LTO-2		
			IBM LTO-3		
			IBM LTO-4		
HP	ESL E Series	Minimum: 4.10	HP LTO-3		
			HP LTO-3 WORM		
			HP LTO-4		
			HP LTO-4 WORM		
	MSL 6000	Minimum: 05.07	HP LTO-2		
			HP LTO-3		
			HP LTO-3 WORM		
			HP LTO-4		
	MSL G3 Series (2024/4048/8096)	Minimum 2024: 0370 (3.70) Minimum 4048: 0600 (6.00) Minimum 8096: 0850 (8.50)	HP LTO-2		
			HP LTO-3		
			HP LTO-3 WORM		
			HP LTO-4		
			HP LTO-4 WORM		
	EML E-Series	Minimum: 1070	HP LTO-3		
			HP LTO-4		
			HP LTO-4 WORM		
IBM	TS3500	Minimum: 7422	IBM LTO-2		
			IBM LTO-3	Minimum: 93GE	
			IBM LTO-4	Minimum: A239	
			IBM 3592 (J1A and E05)		
			IBM TS1120 (E05)		Same as IBM3592 E05
Qualstar	XLS	Minimum: 0880	IBM LTO-3		
			IBM LTO-4		
Sony	Petasite CSM-200	Minimum: 6.30	IBM LTO-4 drive (T1600)		
Spectralogic	T-Series	Recently Tested: 2000	LTO-3	Vendor supported: 93G0	See Bulletin 46. Library firmware is known as BlueScale 11.
			LTO-4	Recently tested: 97F9	

Notes: Before using DLT cleaning with DLT-S4 or SDLT 600 drives, configure the library (Scalar i2000 or PX720) to disable reporting of the media ID. If media ID reporting is not disabled, StorNext will not recognize the cleaning media (SDLT type 1).

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StorNext 3.5.3 Supported Libraries and Tape Drives (Continued)

Vendor Library Family	Libraries	Enforced Minimum / Recently Tested Library Firmware Level	Drive Types	Enforced Minimum / Recently Tested Drive Firmware Level	Notes
Oracle (Sun / StorageTek) SCSI/FC Libraries	L180/ L700/ L1400	Minimum: 3.18.02	T9840C		
			T9840D		
			T10000A	Minimum 1.40	See Note 2
			T10000B	Minimum 1.40 Recently tested: 1.44	See Note 2
			HP LTO-3		
			HP LTO-4		
			IBM LTO-3		
			IBM LTO-4		
	SL3000	Minimum: 2.35 Recently tested : 2.35	T9840C		
			T9840D		
			T10000A	Minimum 1.40	See Note 2
			T10000B	Minimum 1.40 Recently tested: 1.44	See Note 2
			HP LTO-3		
			HP LTO-4		
			IBM LTO-3		
			IBM LTO-4		
	SL500	Minimum: 1373	HP LTO-3		
			HP LTO-4		
			IBM LTO-3		
			IBM LTO-4		
	9740	Minimum: 2000	Sun/STK 9840		
			Sun/STK 9940		
Oracle (Sun / StorageTek) ACSLS (pre-7.3) Libraries See Note 3	9310	Minimum: None	T10000 Rev A	Minimum 1.40	See Note 2
	9710	Minimum: None			
	9740	Minimum: 2000			
	L5500	Minimum: None			
	L700	Minimum: 2.36	Sun/STK 9840, Sun/STK 9940, Sun/STK 9940B, T10000 Rev A, HP LTO-2, HP LTO-4, IBM LTO-2, IBM LTO-3, IBM LTO-4	T10K: Minimum 1.40	T10K: See Note 2
	L180	Minimum: 2.00			
	SL8500				
	SL500	Minimum: 10.67			Not including WORM

Note 1: The Sun / StorageTek FC and ACSLS sections have been modified to include drive and library permutations that are "paper certified" based on testing that has been performed and validated by Sun/STK.

Note 2: When using T10000 drives, the STK library parameter "Fastload" must be set to "OFF".

Note 3: ACSLS versions prior to ACSLS 7.3 have been declared end of life and were not tested with this release.

StorNext 3.5.3 Supported Libraries and Tape Drives (Continued)

Vendor Library Family	Libraries	Enforced Minimum / Recently Tested Library Firmware Level	Drive Types	Enforced Minimum / Recently Tested Drive Firmware Level	Notes
Oracel (Sun / StorageTek) ACSLS 7.3 Libraries See Notes 1 and 3	L180/ L700/ L1400	Minimum: 3.18.02	T9840C		
			T9840D		
			T10000A	Minimum 1.40	See Note 2
			T10000B	Minimum 1.40 Recently tested: 1.44	See Note 2
			HP LTO-3		
			HP LTO-4		
			IBM LTO-3		
			IBM LTO-4		
	SL3000	Minimum: 2.35 Recently tested: 2.35	T9840C		
			T9840D		
			T10000A	Minimum 1.40	See Note 2
			T10000B	Minimum 1.40 Recently tested: 1.44	See Note 2
			HP LTO-3		
			HP LTO-4		
			IBM LTO-3		
			IBM LTO-4		
	SL500	Minimum: 1373	HP LTO-3		
			HP LTO-4		
			IBM LTO-3		
			IBM LTO-4		
	SL8500	Minimum: 4.14 Recently Tested: 4.70	T9840C		
			T9840D		
			T10000A	Minimum 1.40	See Note 2
			T10000B	Minimum 1.40 Recently tested: 1.44	See Note 2
			HP LTO-3		
			HP LTO-4		
			IBM LTO-3		
			IBM LTO-4		

Note 1: The Sun / StorageTek FC and ACSLS sections have been modified to include drive and library permutations that are “paper certified” based on testing that has been performed and validated by Sun/STK.

Note 2: When using T10000 drives, the STK library parameter “Fastload” must be set to “OFF”.

Note 3: ACSLS versions prior to ACSLS 7.3 have been declared end of life and were not tested with this release.

StorNext 3.5.3 Client Interoperability			
Apple Xsan Version	**Platform**	**Compatible**	**Notes**
1.4	x86-32 bit	No	See notes 1 and 2
1.4.1	x86-32 bit	No	See notes 1 and 2
1.4.2	x86-32 bit	No	See notes 1 and 2
2.0	x86-32 bit	Yes	See notes 1 and 2
2.1	x86-32 bit	Yes	See notes 1 and 2
2.1.1	x86 32-bit	Yes	See notes 1 and 2
2.2	x86 32-bit	Yes	
	x86 64-bit	Yes	
2.2.1	x86 32-bit	Yes	
	x86 64-bit	Yes	

[1] Apple Leopard machines run with 32-bit kernel, 64-bit user

[2] Releases earlier than MacOS X 10.5.5 may have limited Windows Access Control Lists (ACL) functionality.