

StorNext 4.0 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	Distributed Data Mover	Replication / Dedup Server
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 Server 2008	SP1	x86 32-bit		✓		✓			
		x86 64-bit	✓	✓	✓**	✓			
	R2	x86 32-bit		✓		✓			
		x86 64-bit	✓	✓	✓**	✓			
	SP2	x86 32-bit		✓		✓			
		x86 64-bit	✓	✓	✓**	✓			
Windows 7		x86 64-bit		✓		✓			
		x86 32-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	✓	✓	✓	✓			
RHEL 5	2.6.18-92.EL (Update 1) †	x86 64-bit	✓	✓	✓	✓	✓	✓	✓
	2.6.18-92.EL (Update 2) †	x86 64-bit	✓	✓	✓	✓	✓	✓	✓
	2.6.18-128.EL (Update 3) †	x86 64-bit	✓	✓	✓	✓	✓	✓	✓
	2.6.18-164.EL (Update 4)	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 4.0 server that is not supported, you do so at your own risk. Quantum strongly recommends against installing non-supported servers.

* StorNext support and has been tested using R2 SP2 since StorNext release 3.1.2.

** Windows Distributed LAN Server supports up to 128 distributed LAN clients.

† **These releases of RHEL4 and RHEL5 have a possible silent data corruption issue as documented in Product Alert #20. Quantum recommends migrating 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 RHEL5.**

StorNext 4.0 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	Distributed Data Mover	Replication / Dedup Server
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	✓	✓	✓	✓	✓	✓	✓
SLES 11 ^{††} ***	2.6.27.19-5	x86 64-bit		✓		✓			
Sun Solaris 10	Generic 120011-14	Sparc 64-bit		✓					
	Generic 127128-11	Opteron x86 64-bit		✓		✓			
		Intel x86 64-bit		✓		✓			
IBM AIX	6.1	64-bit Power Architecture		✓					
HP-UX	11i v3 (Requires the "0909 Patch set")	Itanium 64-bit		✓					
Apple (using Xsan)	MacOS X 10.5.5 w/Xsan 2.1.1, StorNext MDC	x86 32-bit		✓					
		x86 64-bit		✓					
	MacOS X 10.6.1 w/Xsan 2.2, StorNext MDC	x86 32-bit		✓					
		x86 64-bit		✓					

The following platforms have equivalent RedHat releases, and are supported only if the issue can be reproduced on the equivalent RedHat release.

CentOS	Based on RHEL5 Update 4	x86 64-bit		✓		✓			
Scientific Linux ^{†††}	Based on RHEL5 Update 3	x86 64-bit		✓		✓			
Oracle Linux ^{†††}	Base on RHEL5 Update 2	x86 64-bit		✓		✓			

Notes: Although SGI IRIX clients cannot be upgraded to StorNext 4.0, StorNext 3.5.1 SGI IRIX clients may be used with a StorNext 4.0 MDC.

The RHEL and SLES kernel levels listed indicate which kernel levels were used for the majority of testing. In general, other kernel levels within the same service pack are supported unless otherwise noted.

^{††} SLES 10 SP1 (and earlier) and SP2 kernels 27-36 are sensitive to the same silent data corruption issue documented in Product Alert #20. The problem has been fixed in SP2 kernel 37 and SP3, as well as in the SLES 11 releases. There is no recommended work-around at this time.

^{***} 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.

^{†††} These platforms are not specifically tested for StorNext releases. Support for these releases will be at the equivalent RHEL or SLES kernel service pack release, and issues reported against these platforms must be demonstrated to be on the equivalent base RHEL or SLES release for additional support to apply.

StorNext 4.0 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		
			IBM 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		See library firmware requirement
			IBM LTO-2		
			IBM LTO-3		
			IBM LTO-4		
			IBM LTO-3 WORM		
			IBM LTO-4 WORM		
			HP LTO-4		
			HP LTO-4 WORM		
	Scalar 24	Minimum: 107A.GY0002	IBM LTO-1		Not including WORM
			IBM LTO-2		
			IBM LTO-3		
			IBM LTO-4		
	Scalar 50	Minimum: 002A	HP LTO-4		
	Scalar 100	Minimum: 2.05.0003	IBM LTO-1		Not including WORM 2.10.0013 is bad firmware
			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			

‡ 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).

StorNext 4.0 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	Scalar 10000	Minimum: 110A.00001	IBM LTO-1	See library firmware requirement	Must use SDLC/DAS, SDLC/SCSI Target Mode or Native SCSI
			IBM LTO-2		
			IBM LTO-3		
			IBM LTO-4		
			IBM LTO-3 WORM		
			AIT-2		
			AIT-2 WORM		
	Scalar i40	Minimum: 101G.GS005 Recently Tested: 101G.GS005	HP LTO-4		
	Scalar i80	Minimum: 101G.GS005 Recently Tested: 101G.GS005	HP LTO-4		
	PX500	Minimum: 001A	HP LTO-3		Not including WORM 3.0
PX720 †	Minimum 4.00	HP LTO-2		Not including WORM	
		HP LTO-3			
		DLT-S4			
DXI 7500	Minimum: N / A Recently Tested: 05.02.084	Supported emulations include: DLT7000, SDLT320, SDLT600, DLT-S4, Quantum/Certance LTO-2 and, 3, HP LTO-1, 2, 3 and 4, IBM LTO-1, 2, 3 and 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		Including Regular and WORM
			HP LTO-4		
	MSL 6000	Minimum: 0507	HP LTO-2		Including Regular and WORM
			HP LTO-3		
			HP LTO-4		
	MSL G3 Series (2024/4048/8096)	Minimum 2024: 0370 Minimum 4048: 0600 Minimum 8096: 0850	HP LTO-2		
			HP LTO-3		
			HP LTO-4		
	EML E-Series	Minimum: 1070	HP LTO-3		LTO-4 WORM added to matrix at SN 3.5.1; it was validated earlier but missing from earlier release matrices
HP LTO-4 HP LTO-4 WORM					

† 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).

StorNext 4.0 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
IBM	TS3500	Minimum: 4680	IBM LTO-2		
			IBM LTO-3		
			IBM LTO-4		
			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	
Sun / StorageTek SCSI/FC Libraries	L180/ L700/ L1400	Minimum: 3.18.02	T9840C		
			T9840D		
			T10000A		See Note 2
			T10000B	See Note 4	See Notes 2 and 3
			HP LTO-3		
			HP LTO-4		
			IBM LTO-3		
			IBM LTO-4		
	SL3000	Minimum: 2.30	T9840C		
			T9840D		
			T10000A		See Note 2
			T10000B	See Note 4	See Notes 2 and 3
			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		Obsolete	
		Sun/STK 9940			

Note 2: Tape cleaning problem introduced with 1.38.209, special fix at RA1.38.209. 1.40.x firmware level where fix was rolled forward has not been determined yet.

Note 3: When using T10000 drives, the STK library parameter "Fastload" must be set to "OFF".

Note 4: Minimum: RA1.38.209, but note that 1.38.209 manifests tape cleaning issue, recently tested: 1.40.208 (with tape cleaning failure)

StorNext 4.0 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
Sun / StorageTek ACSLS 7.3 Libraries See Notes 1 and 5	L180/ L700/ L1400	Minimum: 3.18.02	T9840C		
			T9840D		
			T10000A		See Note 2
			T10000B	See Note 4	See Notes 2 and 3
			HP LTO-3		
			HP LTO-4		
			IBM LTO-3		
			IBM LTO-4		
	SL3000	Minimum: 0230 Recently Tested: Unavailable	T9840C		
			T9840D		
			T10000A		See Note 2
			T10000B	1.44 See Note 4	See Notes 2 and 3
			HP LTO-3		
			HP LTO-4		
			IBM LTO-3		
			IBM LTO-4		
	SL500	Minimum: 1373 Recently Tested: Unavailable	HP LTO-3		
			HP LTO-4		
			IBM LTO-3		
			IBM LTO-4		
	SL8500	Minimum: 4.14 Recently Tested: 4.70	T9840C		
			T9840D		
			T10000A		See Note 2
			T10000B	1.44 See Note 4	See Notes 2 and 3
			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: Tape cleaning problem introduced with 1.38.209, special fix at RA1.38.209. 1.40.x firmware level where fix was rolled forward has not been determined yet.

Note 3: When using T10000 drives, the STK library parameter “Fastload” must be set to “OFF”.

Note 4: Minimum: RA1.38.209, but note that 1.38.209 manifests tape cleaning issue, recently tested: 1.40.208 (with tape cleaning failure)

Note 5: ACSLS versions prior to ACSLS 7.3 have not been tested with this release.

StorNext 4.0 Minimum Firmware Levels for Drives

Drive Type	Minimum Drive Firmware Level	Notes
IBM LTO-1	25D4	Also known as ULT3580-TD1 and ULTRIUM-TD1
IBM LTO-2	3AY4	Also known as ULT3580-TD2 and ULTRIUM-TD2
IBM LTO-3 IBM LTO-3 WORM	4C17	Also known as ULT3580-TD3 and ULTRIUM-TD3
IBM LTO-4	71G0	Also known as ULT3580-TD4 and ULTRIUM-TD4

Note: When using IBM ULTRIUM-TD3 drives with SUSE Linux Enterprise Server 10, you must upgrade the drive firmware to version 64D0 or later.