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StorNext 4.0.1 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	Distributed Data Mover	Replication / Dedup Server
Windows Server 2003	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		✓		✓			

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 4.0.1 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.

StorNext 4.0.1 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	Distributed Data Mover	Replication / Dedup Server
RHEL 4 See Note 1 See Note 2	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 See Note 1 See Note 2	2.6.18-53.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	✓	✓	✓	✓	✓	✓	✓
	2.6.18-194.EL (Update 5)	x86 64-bit	✓	✓	✓	✓	✓	✓	✓
SLES 10 *** See Note 2	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	✓	✓	✓	✓	✓	✓	✓
SLES 11 ‡‡ *** See Note 2	2.6.27.19-5	x86 64-bit		✓		✓			
	2.6.32.12-0 (SP1)	x86 64-bit		✓		✓			

Notes:

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.

‡ All releases of RHEL4 and RHEL5 except RHEL4U8 and RHEL5U4 / RHEL5U5 have a possible silent data corruption issue as documented in Product Alert #20. Quantum recommends that users migrate to RHEL4U8 or RHEL5U4 / RHEL5U5 or later as soon as possible.

‡‡ SLES10 SP1, and certain SLES10 SP2 releases are sensitive to the silent data corruption issue documented in Product Alert #20. The problem has been fixed in SLES 10 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 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.

1 The "Xen" virtualization software is not supported for RHEL 4 and RHEL5.

2 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 4.0.1 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	Distributed Data Mover	Replication / Dedup Server
Sun Solaris 10	Generic 141444-09	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 (See Note 3)	Itanium 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 5	x86 64-bit		✓		✓			
Scientific Linux‡‡‡	Based on RHEL5 Update 5	x86 64-bit		✓		✓			
Oracle Linux‡‡‡	Base on RHEL5 Update 5	x86 64-bit		✓		✓			

‡‡‡ 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.

Note 3: HPUX 11iv3 requires the "0909 Patch set"

Although SGI IRIX clients cannot be upgraded to StorNext 4.0.1, StorNext 3.5.1 SGI IRIX clients may be used with a StorNext 4.0.1 MDC.

StorNext 4.0.1 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 i5.1 (Quantum, Dell, IBM) i6 (Quantum) i6.1 (Quantum, Dell) i6.2 (IBM)	i5.1: 572G.GS002 i6, i6.1: 580G.GS003 i6.2: 587G.GSxxx	7404 I/O blade	i5.1: V05090501 i6, i6.1: V05100201	
			IBM LTO-2	8571, QTM i6 and i6.1 requires 93T0, Dell and IBM i5.1 / i6.1 do not support LTO-2	Library firmware upgrade may be required for LTO-3 WORM support
			IBM LTO-3	93G0, i6,and i6.1 require 93G6	
			IBM LTO-3 WORM		
			IBM LTO-4	94D4, FC requires 97FB, SAS requires 97F0, i6 and i6.1 require A232	
			IBM LTO-4 WORM		
			HP LTO-4 FC	H46Z, i6, i6.1 requires H57Z Only supported in Quantum-branded libraries	
			HP LTO-4 SAS	A45Z, i6, i6.1 requires H57Z Only supported in Quantum-branded libraries	
			HP LTO-5 FC	I24Z Only supported in Quantum i6.x	

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StorNext 4.0.1 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 i2000 / i6000 ‡	Minimum: 120A IBM LTO-3, IBM LTO-3 WORM: 300A IBM LTO-4, IBM LTO-4 WORM 540A i6.5; 590A i6.6: 595A.01601 i6.7: 596A.GS00301	7404 I/O Blade		i6000 branding started at i2000 i8.
			IBM LTO-1 FC and SCSI	5AU1	
			IBM LTO-2 FC and SCSI	93T0	
			IBM LTO-3 (2G and 4G	93G0, i8 requies 93G6	
			IBM LTO-3 WORM		
			IBM LTO-4 4G	94D4, i8 requires A232	
			IBM LTO-4 WORM		
			HP LTO-3 2G	L67Z	
			HP LTO-3 4G	M69Z	
			HP LTO-3 WORM		
			HP LTO-4 4G	H57Z	
			HP LTO-4 WORM		
			HP LTO-5 FC	I24Z, i8 requires TBD Only supported in i6.7, i8	
			Quantum DLT-S4	V42	
			Quantum SDLT 320 SCSI	V94	
			Quantum SDLT 600 FC	V53	
	Scalar i40 / i80 i1 includes HP HH LTO-5 SAS	101G.GS005	HP LTO-4 FH SAS	A54Z	
			HP LTO-4 FH 4GB FC	H57Z	
			HP LTO-4 HH SAS	U517	
			HP LTO-4 HH FC	V51Z	
	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 **NOTE**: 2.10.0013 firmware not to be used.
			IBM LTO-2		
			IBM LTO-3		
			AIT-2		

‡ 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 4.0.1 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 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	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	See library firmware requirement	
			IBM LTO-3 WORM	See library firmware requirement	
			AIT-2		
			AIT-2 WORM		
			IBM 3592		
	PX500	Minimum: 001A	HP LTO-3		Not including WORM
	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, 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 Recently tested: 7.50	HP LTO-3	Recently tested: L68W	
			HP LTO-3 WORM		
			HP LTO-4		
			HP LTO-4 WORM		
			HP LTO-5	Recently tested: I25W	
			HP LTO-5 WORM		
	EML E-Series	Minimum: 1070 Recently tested: 1395	HP LTO-3		
			HP LTO-4		
			LTO-4 WORM		
			HP LTO-5	Recently tested: I25S	
	MSL 6000	Minimum: 5.07	HP LTO-2		
			HP LTO-3	Recently tested: L67W	
			HP LTO-3 WORM		
			HP LTO-4		

‡ 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 4.0.1 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
HP	MSL G3 Series (2024/4048/8096)	Minimum 2024: 0370 (3.70) Minimum 4048: 0600 (6.00) Recently tested: 7.20 Minimum 8096: 0850 (8.50)	HP LTO-2		
			HP LTO-3		
			HP LTO-3 WORM		
			HP LTO-4		
			HP LTO-4 WORM		
			HP LTO-5		
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	Minimum: unknown Recently Tested: 2000	LTO-3	Vendor supported: 93G0	See Bulletin 46 Library firmware is known as BlueScale 11.
			LTO-4	Recently tested: 97F9	
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	See Note 2
			HP LTO-3		
			HP LTO-4		
			IBM LTO-3		
			IBM LTO-4		
	SL3000	Minimum: 0235	T9840C		
			T9840D		
			T10000A	Minimum: 1.40	See Note 2
			T10000B	Minimum: 1.40	See Note 2
			HP LTO-3		
			HP LTO-4		
			HP LTO-5		
			IBM LTO-3		
			IBM LTO-4		

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

StorNext 4.0.1 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	SL500	Minimum: 1373	HP LTO-3		
			HP LTO-4		
			HP LTO-5		
			IBM LTO-3		
			IBM LTO-4		
	9740	Minimum: 2000	Sun/STK 9840		Obsolete
Oracle (Sun / StorageTek) ACSLS 7.3 ACSLS 7.3.1 Libraries See Note 1	L180/L700/L1400	Minimum: 3.18.02	T9840C		
			T9840D		
			T10000A	Minimum: 1.40	See Note 2
			T10000B	Minimum: 1.40	See Note 2
			HP LTO-3	Recently tested: L6CS	
			HP LTO-4		
			IBM LTO-3		
			IBM LTO-4		
	SL3000	Minimum: 0235	T9840C		
			T9840D		
			T10000A	Minimum: 1.40	See Note 2
			T10000B	Minimum: 1.40 Recently tested: 1.44.210	See Note 2
			HP LTO-3		
			HP LTO-4		
			HP LTO-5	Recently tested: I2DS	Requires ACSLS 7.3.1
			IBM LTO-3		
			IBM LTO-4		
	SL500	Minimum: 1373	HP LTO-3		
			HP LTO-4		
			HP LTO-5		Requires ACSLS 7.3.1
			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		
			HP LTO-5		Requires ACSLS 7.3.1
			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".

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StorNext 4.0.1 Client Interoperability	
StorNext SAN Client Version	**Platform**
StorNext 3.1.2 StorNext 3.1.3 StorNext 3.1.4 StorNext 3.1.4.1	Solaris 9 (sparc only) AIX 5.3 HPUX 11iv2 SGI IRIX 6.5.30 RHEL4 Itanium SLES10 Itanium SLES10 32-bit
StorNext 3.5 StorNext 3.5.1 StorNext 3.5.1.1 StorNext 3.5.2 StorNext 3.5.2.1	AIX 5.3 HPUX 11iv2 SGI IRIX 6.5.30 (not supported on SN 3.5) SLES10 Itanium (not supported on SN 3.5) SLES10 32-bit (not supported on SN 3.5)
StorNext 4.0	No platforms were dropped between StorNext 4.0 and this release. Upgrading client is required.

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StorNext 4.0.1 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.