

**Quantum.**

# Compatibility Guide

## StorNext 4.3.1



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## StorNext Upgrade Matrix

Sites running the following StorNext versions may, upgrade directly to this release, assuming that the platform, service pack, architecture (32 or 64-bit), and StorNext component are supported in the StorNext version installed and in this release.

- StorNext 4.1.0
- StorNext 4.1.1
- StorNext 4.1.2
- StorNext 4.1.3
- StorNext 4.2.0
- StorNext 4.2.1
- StorNext 4.2.1.0.1
- StorNext 4.2.2
- StorNext 4.2.2.0.1 (appliance only release)
- StorNext 4.3.0

All other versions of StorNext require additional steps to upgrade to this release.

## StorNext Components Discontinued Operating Systems and Service Packs

No operating systems or service packs were dropped from the release

## StorNext Components Supported Operating Systems and Service Packs

Operating System	Kernel or Release	Platform	MDC Server <sup>1</sup>	File System SAN Client	Distributed LAN Server Gateway <sup>2</sup>	File System LAN Client	Storage Manager / SNAPI	Distributed Data Mover	Replication / Dedup Server
Windows Server 2003 <sup>5</sup>	R2 SP2	x86 32-bit		✓		✓			
		x86 64-bit	✓	✓	✓ <sup>3, 4</sup>	✓			
Windows XP <sup>5</sup>	SP2	x86 32-bit		✓		✓			
		x86 64-bit		✓		✓			
	SP3	x86 32-bit		✓		✓			
		x86 64-bit		✓		✓			
Windows Vista <sup>5</sup>	SP1	x86 32-bit		✓		✓			
		x86 64-bit		✓		✓			
	SP2	x86 32-bit		✓		✓			
		x86 64-bit		✓		✓			
Windows Server 2008 <sup>5</sup>	SP1	x86 32-bit		✓		✓			
		x86 64-bit	✓	✓	✓ <sup>3, 4</sup>	✓			
	SP2	x86 32-bit		✓		✓			
		x86 64-bit	✓	✓	✓ <sup>3, 4</sup>	✓			
	R2	x86 32-bit		✓		✓			
		x86 64-bit	✓	✓	✓ <sup>3, 4</sup>	✓			
R2 SP1	x86 64-bit	✓	✓	✓ <sup>3, 4</sup>	✓				
Windows 7 <sup>5</sup>	SP1	x86 32-bit		✓		✓			
		x86 64-bit		✓		✓			
		x86 32-bit		✓		✓			
		x86 64-bit		✓		✓			
RHEL 5 <sup>5 6 7</sup>	2.6.18-164.EL (Update 4)	x86 64-bit	✓	✓	✓	✓	✓	✓	✓
	2.6.18-194.EL (Update 5)	x86 64-bit	✓	✓	✓	✓	✓	✓	✓
	2.6.18-238.EL (Update 6)	x86 64-bit	✓	✓	✓	✓	✓	✓	✓
	2.6.18-274.EL (Update 7)	x86 64-bit	✓	✓	✓	✓	✓	✓	✓
	<b>2.6.18-308.EL (Update 8)</b>	<b>x86 64-bit</b>	✓	✓	✓	✓	✓	✓	✓

<sup>1</sup> High Availability is available on all supported Linux MDC platforms.

<sup>2</sup> A StorNext G300 running this release supports any of the DLCs on the operating systems as indicated in this column

<sup>3</sup> Distributed LAN Server on Windows supports up to 128 Distributed LAN Clients.

<sup>4</sup> Gateway instrumentation is not available for Windows.

<sup>5</sup> RHEL and SLES kernel and Windows service pack levels listed indicate the supported versions. Updates within the same service pack (e.g. security updates) are, in general, supported unless otherwise noted.

<sup>6</sup> The “Xen” virtualization software is not supported.

<sup>7</sup> 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 Components Supported Operating Systems and Service Packs

Operating System	Kernel or Release	Platform	MDC Server <sup>1</sup>	File System SAN Client	Distributed LAN Server Gateway <sup>2</sup>	File System LAN Client	Storage Manager / SNAPI	Distributed Data Mover	Replication / Dedup Server
RHEL 6 <sup>5 6</sup>	2.6.32.71.EL	x86 64-bit	✓	✓	✓	✓	✓	✓	✓
	2.6.32.131.EL (Update 1)	x86 64-bit	✓	✓	✓	✓	✓	✓	✓
	2.6.32.220.EL (Update 2)	x86 64-bit	✓	✓	✓	✓	✓	✓	✓
	2.6.32.279.EL (Update 3)	x86 64-bit	ADD	ADD	ADD	ADD	ADD	ADD	ADD
SLES 10 <sup>5 6 7 8</sup>	2.6.16.60-0.54.5 (SP3)	x86 32-bit		✓		✓			
	2.6.16.60-0.54.5 (SP3)	x86 64-bit	✓	✓	✓	✓	✓	✓	✓
	2.6.16.60-0.85.1 (SP4)	x86 32-bit		✓		✓			
	2.6.16.60-0.85.1 (SP4)	x86 64-bit	✓	✓	✓	✓	✓	✓	✓
SLES 11 <sup>5 6 7 8</sup>	2.6.27.19-5	x86 64-bit		✓		✓			
	2.6.32.12-0 (SP1)	x86 64-bit	✓	✓	✓	✓	✓	✓	✓
	3.0.13-0.27.1 (SP2)	x86 64-bit		ADD		ADD			
Solaris 10	Any	sparc 64-bit		✓					
	Any	Opteron x86 64-bit		✓		✓			
		Intel x86 64-bit			✓		✓		
IBM AIX	6.1	64-bit Power Architecture		✓					
	7.1	64-bit Power Architecture		✓					
HP-UX	11i v3 <sup>9</sup>	Itanium 64-bit		✓					
CentOS <sup>10</sup>	Equivalent supported RHEL5 and RHEL6	x86 64-bit		✓		✓			
Scientific Linux <sup>10</sup>	Equivalent supported RHEL5 and RHEL6	x86 64-bit		✓		✓			
Oracle Linux <sup>10</sup>	Equivalent supported RHEL5 and RHEL6	x86 64-bit		✓		✓			

<sup>8</sup> 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.

<sup>9</sup> HPUX 11iv3 requires the “0909 Patch set”.

<sup>10</sup> Platform is supported only if the issue can be reproduced on the equivalent Red Hat release. Only the “standard” versions of this platform are supported. “Special” or “optimized” versions are not supported.

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<b>StorNext Client Interoperability</b>	
<b>StorNext SAN Client Version</b>	<b>Platform</b>
StorNext 3.0.x and older	Back-revision clients running these StorNext versions are not supported, even during the upgrade process. Clients must be upgraded with MDCs to achieve a compatible back-rev client version.
StorNext 3.1.x	Back-revision clients are not supported, even during the upgrade process. Clients must be upgraded with MDCs to SN 4.3.x.
StorNext 3.5.x	<p>Certain back-revision clients, as follows, are supported:</p> <ul style="list-style-type: none"> <li>• AIX 5.3</li> <li>• HPUX 11iv2</li> <li>• SGI IRIX 6.5.30</li> <li>• SLES10 Itanium</li> <li>• SLES11 Itanium</li> <li>• SLES10 32-bit</li> <li>• RHEL4</li> </ul> <p>Quantum recommends that clients be upgraded along with the MDC.</p>
StorNext 4.0.x StorNext 4.1.x	<p>Certain back-revision clients, as follows, are supported: RHEL4</p> <p>Quantum recommends that clients be upgraded along with the MDC.</p>
StorNext 4.2.x	Quantum recommends that clients be upgraded along with the MDC.
StorNext 4.3.x	Quantum recommends that clients be upgraded along with the MDC.

<b>StorNext Virtual Machine Support</b>				
<b>Operating System</b>	<b>Kernel or Release</b>	<b>Platform</b>	<b>File System SAN Client (See Note A)</b>	<b>File System LAN Client (See Note B)</b>
Windows Server 2003 Server 2008 XP Vista 7	All SN supported service packs	x86 32-bit	✓	✓
		x86 64-bit	✓	✓
RHEL5	All SN supported service packs	x86 64-bit	✓	✓
RHEL6	All SN supported service packs	x86 64-bit	✓	✓
SLES 10	All SN supported service packs	x86 32-bit	✓	✓
		x86 64-bit	✓	✓
SLES 11	All SN supported service packs	x86 64-bit	✓	✓

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**NOTE A:** Setting up a SAN client within a virtual machine can be complicated and should be done with great care to avoid data loss.

Guests running StorNext SAN clients have limited cluster functionality due to the use of RDMs to access storage. In particular, snapshots, vMotion, DRS, and fault tolerance are disabled. If these features are required, use DLC clients instead.

To configure StorNext SAN clients in VMware guests, be aware of the following considerations:

- StorNext Data LUNs must be assigned to each StorNext SAN client VM using Raw Device Maps (RDMs) in /Physical Mode/ on a Shared virtual SCSI adapter.
- Never use /Virtual Mode/ RDMs for StorNext LUNs.
- Consult your storage vendor for details on properly configuring the storage for use as VMware vSphere to use raw LUNs as RDMs.
- On each SAN client, generate a raid-strings file by running the command:
  - `cvlabel -R > /usr/cvfs/config/raid-strings`
  - Then open `/usr/cvfs/config/raid-strings` in a text editor and change the third column to JBOD for all storage types. This disables StorNext multi-path handling, which is not needed in a guest. The host will handle multi-pathing.

**NOTE B:** To configure StorNext Distributed LAN Clients in VMware guests, follow the same procedures you would for a physical system. There are no VMware-specific requirements or issues.

## Compatibility with other Products

Product	Reference
Xsan to StorNext Compatibility	Please see the Xsan compatibility matrix document for Xsan compatibility with StorNext
SNAPI to StorNext Compatibility	Please see the SNAPI compatibility matrix document for compatibility between SNAPI and StorNext.
StorNext Partial File Retrieval (PFR) to StorNext Compatibility	Please see the PFR compatibility matrix document for compatibility between PFR and StorNext.
Advanced Reporting	This release is compatible with the following Advanced Reporting versions: <ul style="list-style-type: none"><li>• RHEL5: StorNext Advanced Reporting 2.0.4 (1371)</li><li>• RHEL6: StorNext Advanced Reporting 2.0.4 (1369)</li></ul>

## StorNext Browser Support

The following browsers are supported with the GUI for this release:

- Firefox versions 4 through 11 (Quantum recommends FF11)
- Internet Explorer versions 7 through 9 (Quantum recommends IE9)
- Chrome version 18

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Quantum Supported Libraries and Tape Drives						
Vendor Library Family	Libraries	Minimum / Recently Tested Library Firmware Level	Drive Types	Minimum / Recently Tested Drive Firmware Level	Notes	
Quantum	Scalar i500	Please see applicable i500 documentation for library and drive firmware recommendations	IBM LTO-2			
			IBM LTO-3			
			IBM LTO-3 WORM			
			IBM LTO-4			
			IBM LTO-4 WORM			
				HP LTO-4 FC		
				HP LTO-4 SAS		
				HP LTO-5 FC		
				HP LTO-5 SAS		
				IBM LTO-5 FC		
	Scalar i6000 / i2000	Please see i6000 / i2000 documentation for library and drive firmware recommendations	IBM LTO-1 FC and SCSI IBM LTO-2 FC and SCSI IBM LTO-3 (2G and 4G) IBM LTO-3 WORM IBM LTO-4 4G IBM LTO-4 WORM IBM LTO-5 HP LTO-3 2G HP LTO-3 4G HP LTO-3 WORM HP LTO-4 4G HP LTO-4 WORM HP LTO-5 FC Quantum DLT-S4			
			Quantum SDLT 320 SCSI			
			Quantum SDLT 600 FC			
Scalar i80 / i40	Please see i80 / i40 documentation for library and drive firmware recommendations		HP LTO-4 FH SAS			
			HP LTO-4 FH 4GB FC			
			HP LTO-4 HH SAS			
			HP LTO-4 HH FC			
			HP LTO-5 HH SAS			
			HP LTO-5 HH FC			
Scalar 24	Please see Scalar 24 documentation for		IBM LTO-1 IBM LTO-2		Not including WORM	

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## Quantum Supported Libraries and Tape Drives

Vendor Library Family	Libraries	Minimum / Recently Tested Library Firmware Level	Drive Types	Minimum / Recently Tested Drive Firmware Level	Notes
		library and drive firmware recommendations	IBM LTO-3 IBM LTO-4		
	Scalar 50	Please see Scalar 50 documentation for library and drive firmware recommendations	HP LTO-4		
	Scalar 100	Please see Scalar 100 documentation for library and drive firmware recommendations	IBM LTO-1 IBM LTO-2 IBM LTO-3 AIT-2		Not including WORM  NOTE: 2.10.0013 firmware not to be used.
	Scalar 1000	Please see Scalar 1000 documentation for library and drive firmware recommendations	IBM LTO-2 IBM 3590B1A AIT-1		Must use SDLC <sup>11</sup> / DAS, SDLC <sup>11</sup> /SCSI Target Mode or Native SCSI
	Scalar 10000	Please see Scalar 10000 documentation for library and drive firmware recommendations	IBM LTO-1 IBM LTO-2 IBM LTO-3 IBM LTO-4 IBM LTO-3 WORM AIT-2 AIT-2 WORM IBM 3592		Must use SDLC <sup>11</sup> / DAS, SDLC <sup>11</sup> / SCSI Target Mode or Native SCSI
	PX500	Please see PX500 documentation for library and drive firmware recommendations	HP LTO-3		Not including WORM 30.0
	PX720	Please see PX700 documentation for library and drive firmware recommendations	HP LTO-2 HP LTO-3 DLT-S4		Not including WORM
	DXI 7500	Please see DXI 7500 documentation for firmware recommendations	Supported i2k emulation modes include: DLT7000, SDLT320, SDLT600, DLT-S4, Quantum/Certance LTO-2, 3, HP LTO-1, 2, 3, 4, IBM LTO-1, 2, 3, 4		

<sup>11</sup> Scalar Distributed Library Controller has been tested up to version 2.8

### Quantum Supported Libraries and Tape Drives

Vendor Library Family	Libraries	Minimum / Recently Tested Library Firmware Level	Drive Types	Minimum / Recently Tested Drive Firmware Level	Notes
	DXI 8500	Please see DXI 7500 documentation for firmware recommendations	Supported i2k emulation modes include: DLT7000, SDLT320, SDLT600, DLT-S4, Quantum/Certance LTO-2, 3, HP LTO-1, 2, 3, 4, IBM LTO-1, 2, 3, 4		

### Non-Quantum Supported Libraries and Tape Drives

Vendor Library Family	Libraries	Minimum / Recently Tested Library Firmware Level	Drive Types	Minimum / Recently Tested Drive Firmware Level	Notes
Dell	PV136T	Minimum: 3.11 Recently Tested: Unavailable	IBM LTO-2 IBM LTO-3 IBM LTO-4		
	PowerVault ML6000 (6010, 6020, 6030)	Minimum: 585G.GS003 Recently Tested: N / A	IBM LTO3FH SCSI IBM LTO3FH FC	Minimum: 93G6	LTO-3, LTO-4, LTO-5 WORM capability supported
			IBM LTO4FH SAS IBM LTO4FH FC	Minimum: A232	
IBM LTO5FH SAS IBM LTO5FH FC	Minimum: A420				
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				
	MSL 6000	Minimum: 5.07 Recently Tested: Unavailable	HP LTO-2	Recently tested: L67W	
HP LTO-3 HP LTO-3 WORM					
MSL G3 Series (2024/4048/8096)	Minimum 2024: 0370 (3.70) Minimum 4048: 0600 (6.00), Recently tested: 7.20 Minimum 8096: 0850	HP LTO-2		HP LTO-5 WORM validation was not successful in SN 4.x testing and is not supported	
		HP LTO-3 HP LTO-3 WORM			
		HP LTO-4 HP LTO-4 WORM			

Non-Quantum Supported Libraries and Tape Drives					
Vendor Library Family	Libraries	Minimum / Recently Tested Library Firmware Level	Drive Types	Minimum / Recently Tested Drive Firmware Level	Notes
		(8.50)	HP LTO-5		
	EML E-Series	Minimum: 1070 Recently Tested: 1395	HP LTO-3	Recently tested: I25S	HP LTO-5 WORM validation was not successful in SN 4.x testing and is not supported
			HP LTO-4 LTO-4 WORM		
	ESL G3	Minimum: Recently Tested: 620H	HP LTO-5		LTO-3 drives are not supported on the ESL G3 library
			HP LTO-4 4G	Recently tested: H63W	
			HP LTO-4 WORM		
			HP LTO-5 FC	Recently tested: I3FW	
IBM	TS3500	Minimum: 7422 Recently Tested: A420	IBM LTO-2	Minimum: 93GE	
			IBM LTO-3		
			IBM LTO-4	Minimum: A239	
			IBM LTO-5	Minimum: A6S0	
	TS3310	Minimum: 587G.GS003 Recently Tested: N / A	IBM 3592 (J1A and E05)		Same as IBM3592 E05
			IBM TS1120 (E05)		
Oracle SCSI/FC Libraries	L180/L700/L1400	Minimum: 3.18.02 Recently Tested: Unavailable	IBM TS1140	Minimum: D3I3_642 for TS1140 with TS3500	
			IBM LTO-3	Minimum: 93GE	
			IBM LTO-4	Minimum: A239	
			IBM LTO-5	Minimum: A6S0	
			T9840C		
			T9840D		
			T10000A <sup>12</sup>	Minimum: 1.40	
	T10000B <sup>12</sup>	Minimum: 1.40			
	T10000C <sup>12, 13</sup>				
	SL3000	Minimum: 2.35 LTO-5 requires	HP LTO-3		
HP LTO-4					
			IBM LTO-3		
			IBM LTO-4		
			T9840C		
			T9840D		

<sup>12</sup> When using T10000 drives, the STK library parameter “Fastload” must be set to “OFF”.

<sup>13</sup> When using a T10000 Rev C drive with ACSLS 8.0.x, please assure that your cleaning cartridges are supported in that ACSLS release. Quantum has found a case where a cleaning cartridge isn’t recognized by ACSLS 8.0.x and reports incorrect media type in the StorNext GUI. This report of incorrect media type does not prevent the cleaning cartridge from being successfully used, but can cause operator confusion. ACSLS 8.1.x corrects the issue.

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Non-Quantum Supported Libraries and Tape Drives					
Vendor Library Family	Libraries	Minimum / Recently Tested Library Firmware Level	Drive Types	Minimum / Recently Tested Drive Firmware Level	Notes
		minimum 2.35 Recently Tested: Unavailable	T10000A <sup>12</sup>	Minimum: 1.40	
			T10000B <sup>12</sup>	Minimum: 1.40	
			T10000C <sup>12, 13</sup>		
			HP LTO-3		
			HP LTO-4		
			HP LTO-5	Recently tested: I2DS	
			IBM LTO-3		
			IBM LTO-4		
	SL500	Minimum: 1373 LTO-5 requires minimum 1395 Recently Tested: Unavailable	HP LTO-3		
			HP LTO-4		
			HP LTO-5	Recently tested: I2DS	
			IBM LTO-3		
			IBM LTO-4		
	9740	Minimum: 2000 Recently Tested: Unavailable	Sun/STK 9840		Obsolete
Oracle ACSL 7.3 ACSL 7.3.1 ACSL 8.0.x <sup>14</sup> ACSL 8.1.x	L180/L700/L1400	Minimum: 3.18.02 Recently tested (L700): 3.18	T9840C		
			T9840D		
			T10000A <sup>12</sup>	Minimum: 1.40	
			T10000B <sup>12</sup>	Minimum: 1.40	
			T10000C <sup>12, 13</sup>		
			HP LTO-3	Recently tested: L6CS	
			HP LTO-4		
			IBM LTO-3		
	SL3000	Minimum: 2.35 LTO-5 requires minimum 2.35 Recently Tested: 3.60	T9840C		
			T9840D		
			T10000A <sup>12</sup>	Minimum: 1.40	
			T10000B <sup>12</sup>	Minimum: 1.40 Recently tested: 1.44.210	
			T10000C <sup>12, 13</sup>	Recently tested: 1.53.311	
			HP LTO-3		
			HP LTO-4		

<sup>14</sup> The Oracle 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.

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## Non-Quantum Supported Libraries and Tape Drives

Vendor Library Family	Libraries	Minimum / Recently Tested Library Firmware Level	Drive Types	Minimum / Recently Tested Drive Firmware Level	Notes	
			HP LTO-5	Recently tested: I2DS	Requires minimum ACSLS 7.3.1	
			IBM LTO-3			
			IBM LTO-4			
			IBM LTO-5		Requires minimum ACSLS 7.3.1	
	SL500	Minimum: 1373 LTO-5 requires minimum 1395 Recently Tested: Unavailable	HP LTO-3			
			HP LTO-4			
			HP LTO-5	Recently tested: I2DS	Requires minimum ACSLS 7.3.1	
			IBM LTO-3			
			IBM LTO-4			
			IBM LTO-5		Requires minimum ACSLS 7.3.1	
	SL8500	Minimum: 4.14 LTO-5 requires minimum 6.02 Recently Tested: 7.05	T9840C			
			T9840D			
			T10000A <sup>12</sup>	Minimum: 1.40		
			T10000B <sup>12</sup>	Minimum: 1.40 Recently tested: 1.44		
			T10000C <sup>12, 13</sup>	Recently tested: 1.53.311		
			HP LTO-3			
			HP LTO-4			
			HP LTO-5	Recently tested: I2DS	Requires minimum ACSLS 7.3.1	
			IBM LTO-3			
			IBM LTO-4			
IBM LTO-5		Requires minimum ACSLS 7.3.1				
Qualstar	XLS	Minimum: 0880 Recently Tested: Unavailable	IBM LTO-3			
			IBM LTO-4			
			IBM LTO-5			
Sony	Petasite CSM-200	Minimum: 6.30 Recently Tested: Unavailable	IBM LTO-4 drive (T1600)			

Spectra Logic	T-Series (T50e, T120, T200, T380, T680, T950, and T-Finity)	Minimum: Unavailable Recently Tested: 2000	LTO-3	Vendor supported: 93G0	See Bulletin 46 Library firmware is known as BlueScale 11. Both L700 emulation and Native mode are supported In L700 emulation mode, LTO-5 drives report as LTO-4, limiting the capacity of the media.
			LTO-4	Recently tested: 97F9	
			LTO-5	Recently tested: B170	
			IBM TS1140	Recently tested: 3524	