

StorNext®

Accelerate your business.
Preserve your data.



Proven in some of the world's most data intensive industries such as media and entertainment, oil and gas, satellite imaging, and genome research, Quantum StorNext offers you high-performance file sharing as well as enterprise data management and protection. The release of StorNext 4.0 builds on this established technology with features such as Replication, Nearline Deduplication, Distributed Data Movers, Partial File Retrieval, and a streamlined Management Console. Comprised of two core components, a shared SAN file system and Storage Manager, StorNext enables you to share, manage, and preserve your business critical information like never before.

The StorNext shared SAN file system accelerates business operations by storing information rapidly, then sharing it simultaneously across heterogeneous platforms, rich media applications, and most disk and tape systems. Enabling customers to consolidate shared storage pools of images, media content, analytical data, and other key digital assets, StorNext makes it possible to process and distribute content more quickly. Even in heterogeneous environments across Linux, Mac, Unix, and Windows operating systems, all files are easily accessible to all hosts whether on the SAN or LAN.

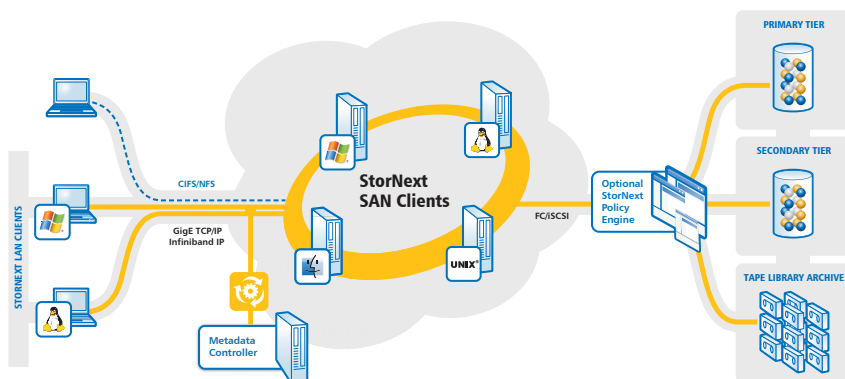
Over time, cost and performance characteristics of files will likely diminish. StorNext Storage Manager enables cost savings and management simplicity with its policy-based tiered storage and archiving capabilities. Data movement is all done transparently, keeping files online and accessible while significantly reducing storage and management costs.

FEATURES AND BENEFITS

- High-performance data sharing
- Simultaneously collaborate across Linux, Windows, UNIX, and Mac operating systems
- Scalable performance and capacity
- Transparent movement of data between storage tiers
- Nearline data deduplication improves storage optimization
- Intelligent replication protects data and improves data distribution

Major Components of the StorNext Solution:

1. **SN SAN Clients connected to Primary Storage:** delivers high-performance file creation, storing, & sharing simultaneously across heterogeneous server platforms
2. **Meta Data Controller:** acts as the "traffic cop" for shared heterogeneous server access to the data pool on the SAN storage
3. **Distributed LAN Clients:** enabling NAS-like scalability to thousands of server nodes for high speed, high scale access
4. **Storage Manager:** policy-base data mover that automatically and transparently copies or moves data to another tier of storage
5. **Storage Tiers & Archive:** lower cost disk and tape SAN storage



StorNext provides high speed, shared workflow and high capacity, multi-tier archives for images, rich media, broadcast content, analytic datasets, and other digital assets.

Deduplication

Quantum developed the pioneering technology known as variable-length hash-based data deduplication that has become an industry leader in the deduplication market. StorNext deduplication reduces the amount of capacity consumed by data on disk. Unlike compression technologies that use static "pattern table" methodologies based on an individual file being compressed, StorNext Deduplication (SNDD) builds its redundancy index based on all the data being deduplicated, not just the file being processed at that moment. SNDD will find redundancies within a file making it extremely efficient at saving storage space (up to 93% in some documented use cases).

Replication

StorNext Replication is an asynchronous, host based replication feature that is highly flexible and configurable. Replication is implemented at the directory level and is policy driven to initiate timed or user initiated copies of data. The policy engine within StorNext also includes the capability to specify how copies are maintained and managed on both the source and target locations. Flexible replication options include n-to-1, 1-to-n, and cascading.

Intelligent replication can also be configured, deduplicating data prior to replication to reduce bandwidth overhead and storage requirements at the remote location.

Distributed LAN Clients (DLC)

DLC allows servers on an IP network to connect to StorNext volumes through SAN clients designated as clustered gateway servers. These gateways are SAN clients that connect directly to the shared storage pool over FC and/or iSCSI, but primarily service DLC I/O. DLC's IP protocol is designed for higher per-stream performance and resilient communication. This specialized protocol is optimized for StorNext and can achieve near line-rate throughputs over standard IP network connections. The protocol also provides resiliency by having each DLC automatically attach to multiple clustered gateways.

Storage Manager

StorNext Storage Manager is an optional software component of StorNext that provides advanced data preservation services. Storage Manager is responsible for automated policy-based transparent data movement as well as capacity management of storage devices. Storage Manager accomplishes this through an integrated policy engine which administrators can easily customize based on specific needs.

Distributed Data Mover (DDM):

Distributed Data Mover acts as the conduit for passing data to and from the storage tiers. As the archive becomes more active, you can simply add more DDMs to scale the system performance. These movers enable reads and writes of file copies for data preservation and retrieval while still providing fast access to data via the copy on primary disk.

Affinities

Affinities are used to 'steer' data within the file system to a specific "stripe group" which is made of one or multiple LUNs. Assigned at a directory level, Affinities can be used to steer data to the most appropriate device.

SUPPORTED PLATFORMS		
Host Operating Systems	Tape Drives	Tape Libraries
Sun Solaris	HP (LTO)	Quantum
HP-UX	IBM (LTO WORM, 3590, 3592, TS1120)	Dell
IBM AIX	Sun/StorageTek (9840, 9940, T10000)	HP
SGI IRIX	DLT-S4	IBM
RedHat EL		Sun/StorageTek
SuSE ES		Sony Petasite
Microsoft Windows		Qualstar
Mac OS X*		

*Mac OS X support provided by Apple's Xsan product. Go to www.apple.com/xsan for more information.

For contact and product information,
visit quantum.com/stornext, call **800-677-6268**
or send an email to softwareinfo@quantum.com

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About Quantum

Quantum Corp. (NYSE:QTM) is the leading global storage company specializing in backup, recovery and archive. Combining focused expertise, customer-driven innovation, and platform independence, Quantum provides a comprehensive range of disk, tape, media and software solutions supported by a world-class sales and service organization. This includes the DXi®-Series, the first disk backup solutions to extend the power of data deduplication and replication across the distributed enterprise. As a long-standing and trusted partner, the company works closely with a broad network of resellers, OEMs and other suppliers to meet customers' evolving data protection needs.