Quantum®

DATASHEET

StorNext®

Proven Solutions for StorNext Big Data Environments

From DNA sequencing to hi-definition video surveillance and seismic exploration, companies across every industry are experiencing tremendous growth in unstructured Big Data. This digital content, including video, audio and images, is very high in volume, growing at exponential rates, and has great value to the business or institution. Proven in world's most data intensive industries, Quantum StorNext® scale-out storage virtualization software offers you high-performance file sharing, enterprise data management, protection and archiving for Big Data environments. Comprised of two core software components, StorNext File System and Storage Manager, StorNext enables you to share, manage, and archive your business critical information within a high-performance and scalable tiered storage infrastructure.

The StorNext shared SAN File System accelerates business operations by storing information rapidly, then sharing it simultaneously across heterogeneous operating systems and server hardware platforms, allowing you to process and distribute content efficiently, archive it for future reuse. Supporting heterogeneous environments across Linux, Mac, Unix, and Windows operating systems, all files are easily accessible to all hosts whether on the SAN or LAN.
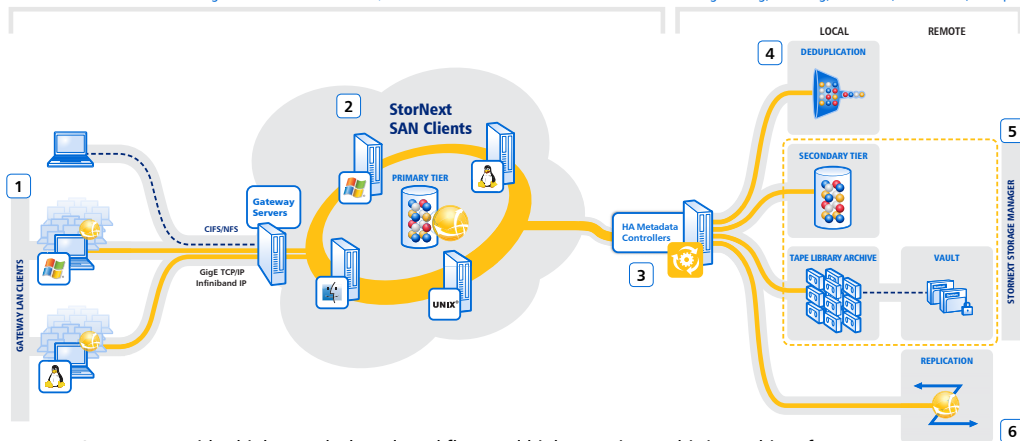
Over time, cost and performance characteristics of data will change. StorNext Storage Manager enables cost savings and management simplicity with its policy-based tiered storage and archiving capabilities. Storage tiering automatically migrates data based on user access ensuring that the most frequently accessed data resides on disk and less frequently accessed data resides on less expensive tape media.

FEATURES AND BENEFITS

- Scale-out storage virtualization
- High-performance data sharing
- Collaboration across Linux, Windows, UNIX, and Mac OSX operating systems
- Massively scalable archive
- Online tiering and archiving
- File System capacity optimization
- Global data protection and data distribution

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

Major Components of the StorNext Solution:

1. **Gateway LAN Clients:** high-performance clustered access over LAN or WAN
2. **SAN Clients:** scalable high-performance shared SAN file system
3. **Metadata Controller:** acts as the "traffic cop" for shared data access to virtualized consolidated storage pool
4. **Deduplication:** patented variable length block deduplication technology
5. **Storage Manager:** policy-based data mover that automatically and transparently copies or moves data to another tier of storage; lower cost disk and tape SAN storage
6. **Replication:** global data replication for advanced protection and distribution

StorNext File System

StorNext File System is a heterogeneous shared file system that allows multiple servers access to a common disk repository regardless of OS type. Nearly all servers—whether they are Windows, Linux, UNIX, and/or Mac OS (via Apple's Xsan)—can run a StorNext client and obtain access to the shared file system.

StorNext Storage Manager

StorNext Storage Manager enables scalable online archiving to address the most aggressive data growth environments and demanding SLAs. Storage Manager is a flexible policy-based data migration engine for storage tiering, and data preservation services. Transparently migrating data to lower cost storage tiers as data ages or is less frequently accessed enables you to align the cost and performance characteristics of your data with that of your storage environment.

SUPPORTED PLATFORMS		
Host Operating Systems and Client Types	Tape Drives	Tape Libraries
Sun Solaris	HP	Quantum
HP-UX	IBM	Dell
IBM AIX	Sun/StorageTek	HP
RedHat EL		IBM
SuSE ES		Oracle/Sun/StorageTek
Microsoft Windows		Sony Petasite
Mac OS X*		Qualstar
CentOS		Spectra Logic
Scientific Linux		
Oracle Linux		

Note: Please refer to full Supported Platform list located at www.Quantum.com
*Mac OS X support provided by Apple's Xsan product. Go to www.apple.com/xsan for more information.

StorNext Time Code-Based Partial File Retrieval

StorNext Time Code-Based Partial File Retrieval is designed for StorNext Storage Manager environments specifically in the Media and Entertainment vertical. PFR indexes video content and works with StorNext to optimize retrieval of smaller clips of content from much larger video files, saving staff time and reducing hardware costs.

Gateway LAN Clients

The Gateway LAN Clients enable high-speed access to StorNext data volumes over an IP network through StorNext SAN gateway servers. The Gateway's IP protocol is designed for higher per-stream performance and resilient communication. This optimized protocol can achieve near-line rate throughputs over standard IP network connections.

Management & Reporting

StorNext provides a robust management console and enhanced reporting capabilities. Built on a web service architecture, StorNext Graphical User Interface (GUI) enables improved usability and monitoring.

Deduplication and Replication

StorNext Deduplication reduces storage requirements of the file system. Unlike compression, StorNext Deduplication builds its redundancy index based on all the data being deduplicated, not just the file being processed at that moment. It finds redundancies within a file making it extremely efficient at saving storage space. StorNext Replication is an asynchronous, host-based replication feature that is highly flexible and configurable. Flexible replication options include multiple protection copies, as well as n-to1 and 1-to-n replication scenarios.

STORNEXT FAMILY OF APPLIANCES NOW AVAILABLE!

Quantum's family of solutions for managing Big Data now include StorNext Metadata Appliances for high-performance file sharing, StorNext AEL Archives for cost-effective near-line storage and offline data retention as well as StorNext Q-Series Storage for high-speed primary storage. The appliances are purpose-built for Big Data, providing high-performance and highly scalable solutions that are cost-effective and easy to manage so you can concentrate on maximizing revenue, increasing workflow productivity, and shortening time-to-market.

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

Quantum®

Preserving the World's Most Important Data. Yours.™

About Quantum

Quantum Corp. (NYSE:QTM) is the leading global specialist in backup, recovery, and archive. From small businesses to multinational enterprises, more than 50,000 customers trust Quantum to solve their data protection, retention and management challenges. Quantum's best-of-breed, open systems solutions provide significant storage efficiencies and cost savings while minimizing risk and protecting prior investments. They include three market-leading, highly scalable platforms: DXi®-Series disk-based deduplication and replication systems for fast backup and restore, Scalar® tape automation products for disaster recovery and long-term data retention, and StorNext® data management software for high-performance file sharing and archiving. Quantum Corp., 1650 Technology Drive, Suite 800, San Jose, CA 95110, (408) 944-4000, www.quantum.com.