Quantum

Next-Generation Storage Workflows and Data Management for Oil and Gas

Energy markets face constant fluctuations from the external forces of global supply and demand. Coupled with internal pressure to reduce costs and increase efficiency, it is clear that oil and gas organizations need to find new ways of doing business.

- **Lower oil prices demand a new level of efficiency:** Big data is beginning to play a huge role in allowing producers to better analyze resource deposits and helping operators do more with less. Management and access to this data is critical to streamline operations and effectively implement new technology.

- **When "if it ain't broke" no longer works:** In an industry traditionally slow to adapt to change, companies are being asked to address big data management for two reasons. First, the data generated is increasing each and every day. Also, the decreased cost of entry to the market demands faster data access and analysis to make effective and profitable decisions.

- **Market cyclicality creates knowledge gaps:** Companies face challenges with losing valuable knowledge from baby boomers and ramping up the newer, less-experienced workforce. On top of this, due to lower prices in the past two years, the industry has been forced to cut 350,000 positions. Retaining and managing data remains critical to maintain a project history and accurate seismic data to revisit plays in the future.

Quantum is a leading expert in scale-out tiered storage, archive, and data protection. The Quantum StorNext® platform—a combination of our high-performance, parallel storage file system and advanced data management software—is purpose-built to satisfy the modern storage requirements of the most data-intensive workloads.

ADVANCED DATA MANAGEMENT

StorNext storage tiering empowers the movement of less frequently used data from costly primary HDD or SSD storage to the most cost-effective tape, object, or cloud storage with best-in-class data integrity. This enables producers to spend less on storage and more on other areas of analysis and reporting. And no matter what tier of storage your file resides, it appears as a single file system.
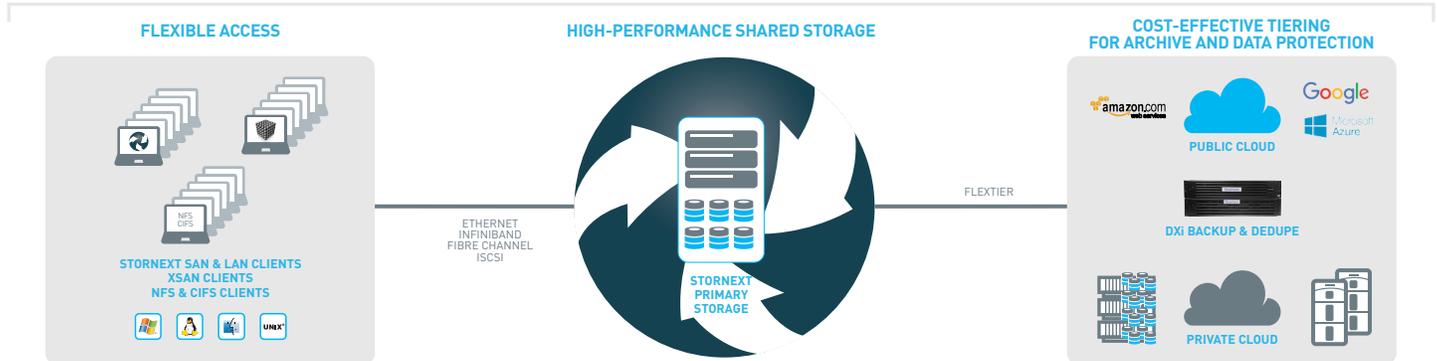
PERFORMANCE MATTERS

New survey technology is generating larger seismic survey data sets. Oil and gas companies need a high-performance storage solution that can efficiently handle massive amounts of data. Quantum's high-performance parallel storage file system is designed to quickly and efficiently ingest large amounts of unstructured data while also delivering streaming performance and real-time shared access to data.
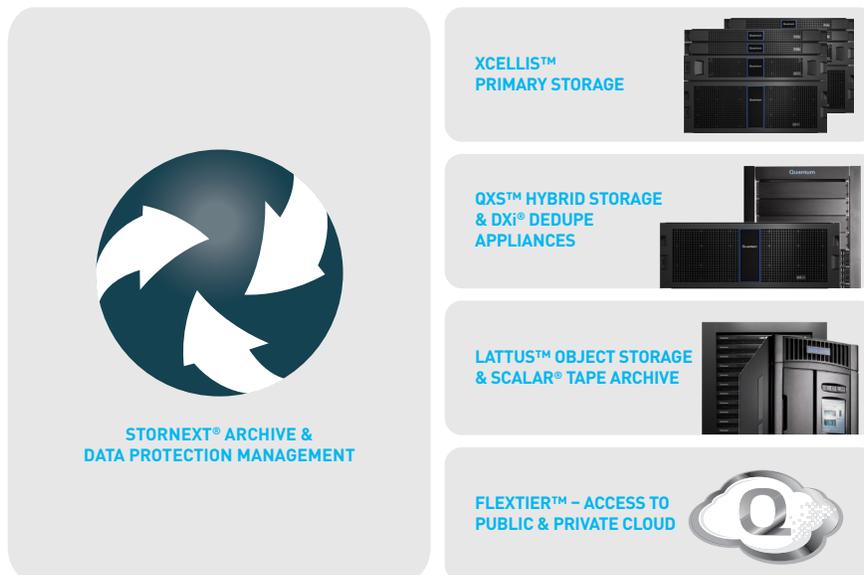
SCALE-OUT STORAGE

Quantum's multi-tier storage approach enables oil and gas companies to scale their infrastructure and achieve desired business results without compromising performance, access, or cost.

STORNEXT SCALE-OUT STORAGE | Industry-Leading Storage for Collaborative Workflows—Powered by StorNext Data Management

FLEXIBLE ACCESS

STORNEXT SAN & LAN CLIENTS
XSAN CLIENTS
NFS & CIFS CLIENTS

NFS
CIFS

ETHERNET
INFINIBAND
FIBRE CHANNEL
ISCSI

HIGH-PERFORMANCE SHARED STORAGE

STORNEXT PRIMARY STORAGE

FLEXTIER

COST-EFFECTIVE TIERING FOR ARCHIVE AND DATA PROTECTION

PUBLIC CLOUD

DXi BACKUP & DEDUPE

PRIVATE CLOUD

ARCHIVE AND DATA PROTECTION

Oil and gas companies operate 24/7, and any downtime can be costly. These organizations need robust, yet easy-to-manage, solutions that can provide the data protection needed, regardless of where the data is located. As advancements are made in the processing and analysis of survey data, oil and gas companies also need to easily and efficiently access archived data for reprocessing to potentially uncover new energy sources.

STORNEXT® ARCHIVE & DATA PROTECTION MANAGEMENT

XCELLIS™ PRIMARY STORAGE

QXS™ HYBRID STORAGE & DXi® DEDUPE APPLIANCES

LATTUS™ OBJECT STORAGE & SCALAR® TAPE ARCHIVE

FLEXTIER™ – ACCESS TO PUBLIC & PRIVATE CLOUD

Quantum's data protection portfolio scales to meet stringent backup and disaster recovery requirements.

Quantum®

www.quantum.com
800-677-6268