

Solution Benefits

- Manage, access and store your mixed workloads using robust scalable data storage
- Enables unequaled high-speed life science workflows with superior cost efficiencies
- Unrivaled consistent high-performance bandwidth to meet today's life science workloads
- Automatically manage archives, backup and restore data from tens of TBs to the multi-PB range
- Provides unsurpassed storage density with maximum scalability

Features

- Allows a high-availability connection from clients to storage for 24x7 up time ensuring users have constant access to their data
- Grow your storage dynamically as your needs require
- Mix storage disk drive options (SSD/FC/SATA/SAS) to match performance and archival needs
- Robust, fault tolerant, full featured 6 GB/s SAS provides superior data integrity and performance
- RAID Inc storage systems offer flexible, scalable performance to manage petabytes of data growth



QUANTUM
STORNEXT



RAID Inc Xanadu 260 Storage System

Quantum StorNext and RAID Inc storage solving the workflow issues for Next Generation Life Sciences

Delivering high performance storage and large-scale data archival for life science instruments

Quantum's StorNext and the RAID Inc Xanadu 260 storage system work together to provide the infrastructure needed for life science developers to easily access, transfer, archive data, with the flexibility to scale performance and capacity to meet your mixed workload needs. Together, both companies are able to bring the highest level of expertise in architecting the ultimate data management solution to support your most critical research.

Exponential Growth of Data

With the introduction of next generation life science instruments, such as DNA sequencers and high content screening (HCS) platforms, the amount of data generated in each Instrument "run" often exceeds GBs or TBs of data. Many research institutes estimate the total amount of data they need to manage will grow to PBs in less than a year.

Analyze Faster and Archive Automatically

The Quantum StorNext Data Management solution enables more research or clinical experiments and instantly shares results across your entire research community. Delivering high-speed shared pools of storage, StorNext enables researchers to analyze and manipulate raw sequencing, flow cytometry or High Content Screening (HCS) data. StorNext File System enables next generation life sciences instruments to share data over the storage area network (SAN) or local area network (LAN) at speeds much greater than network file system (NFS) or common internet file system (CIFS) protocols. StorNext Storage Manager enables users to set policies to automatically archive older, less used, genome base pair or fluorescence data to a more cost-effective tier of storage, such as a low cost LSI storage system, while still keeping data online to be repurposed in the future.

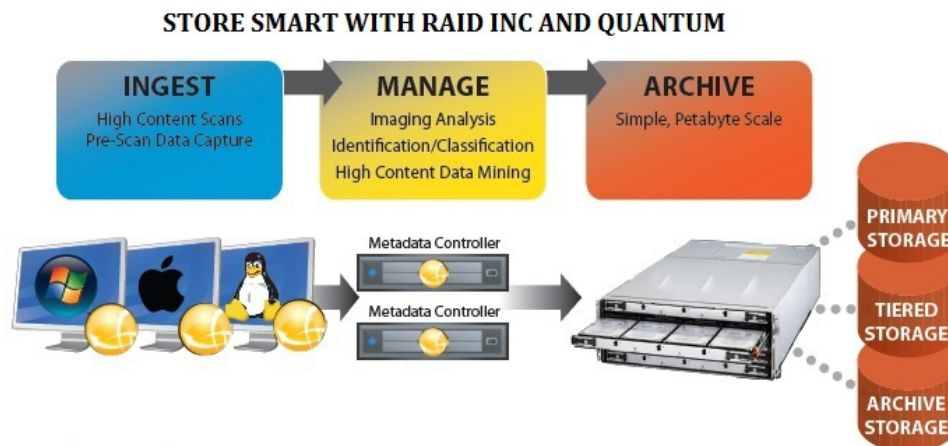
Workflow and Archive

Quantum's StorNext software is built for workflows like genomic sequencing, flow cytometry, high content screening and digital pathology. StorNext enables the ingest of large files from next generation scientific instruments. After ingestion and analysis, StorNext shares the completed research results with all clients as well as automatically retains this data on cost effective second tier disk such as the RAID Inc Xanadu 260 storage array. StorNext File System enables Linux and Windows clients to simultaneously connect at high throughput to a single pool of LSI storage.

StorNext Storage Manager provides policy-based data archival and retrieval for large data environments. Files can be automatically archived to multiple types of storage targets. For environments such as genome research, where many customers are projecting growth to exceed a PB a year, this saves customers money by allowing them to buy cheaper storage for their older, archived data.

Many pharmaceutical companies, universities and research facilities are faced with the dilemma of setting policies to retain much of their scanned data, whether it is to satisfy grant requirements for making this data public or for government regulations, resulting in rising storage and operational costs of unbridled growth of this data. StorNext enables customers to minimize their tier one high-performance disk purchases and instead purchase cheaper disk or even tape for their long term archive requirements.

StorNext virtualizes the SAN storage, making the file namespace across the various disk and tape tiers transparent to researchers, and automates archival of data, such as genome and microscopy images, to cheaper storage as it ages. It also automates the retrieval of data, letting researchers focus on research and not on IT. By minimizing hardware purchases and reducing the need for direct IT involvement in constant provisioning of disk and tape backups, StorNext and LSI can save life sciences companies both CAPEX and OPEX costs.



Solution Component: Quantum StorNext

StorNext data management software lets customers share data faster and store more at a lower cost. StorNext File System offers high speed access to shared pools of storage from both LAN and SAN servers. StorNext Storage Manager enables customers with large data problems to create tiers of storage, reducing costs by automatically moving data to these lower cost tiers as data ages.

Solution Component: RAID Inc Xanadu260 storage system

Next generation laboratory sequencing instruments are driving explosive data growth, creating a challenge for today's storage infrastructure. The RAID Inc Xanadu 260 storage systems are purpose-built to meet the demands of Life-Science developers. The high performance and dense architecture provides life science developers maximum job productivity and quicker time to results. With over years of technology leadership and storage systems based on RAID Inc's best-of-breed technology deployed, the RAID Inc Xanadu 260 solution meets the most demanding data requirements. The RAID Inc Xanadu 260 is a high density, industry leading 6Gb/s SAS storage system designed to support up to 60 3.5 & 2.5-inch SAS drives, in 4U form factor, ensuring low power consumption, and optimal performance.