

Conquer the Challenges of Petabyte-Scale Archives

Highlights

- Quantum Lattus™ powered by ActiveScale™, leverages Western Digital Object Storage technology to unlock more value from your unstructured data by providing:
- Increased accessibility for petabytes of data in a single global namespace
- Reduced costs by automatically migrating stale data to a low-cost high-density ActiveScale object storage system
- Extreme data durability and integrity to ensure valuable data is protected long-term even at petabyte scale
- Improved IT agility by enabling rapid scale up and scale out of capacity to support new business needs
- Simplified management thru an intuitive yet powerful interface and easy to understand reporting

Challenge

- Costly to scale high performance storage systems to keep up with data growth
- High management overhead to enable collaboration and sharing of data among global, distributed teams
- Difficulty keeping data both protected and accessible cost effectively over increasingly longer retention periods
- Unacceptable rebuild times for traditional RAID storage
- Traditional file hierarchies don't allow for global access to support the business requirements

Solution

Western Digital and Quantum make archiving and protecting large amounts of unstructured data easy. Quantum's StorNext® is the industry's fastest streaming file system and policy-driven data management software. Combining StorNext with Lattus powered by ActiveScale high-density low-cost storage enables unstructured data to be stored efficiently and cost effectively for long periods of time or forever if needed.

Traditional Storage No Longer Supports Unstructured Data Demands

There has been a shift in the way that companies use and access data. Not only has the sheer volume of unstructured data increased dramatically, but companies have recognized that this data can help gain competitive advantages and even support new revenue streams. This is placing a demand on IT organizations to store this data forever and preserve access to that information so the business can extract value.

Whether the data is satellite images, CAD drawings, film industry dailies, office documents, DNA sequences or corporate reports, its long-term value lies in persistent availability to be analyzed, monetized, or otherwise reused in the future – not just when it's collected.

Lattus powered by ActiveScale meets the extreme scalability, durability and access requirements of petabyte-scale archives:

- **Safely stores petabytes of data** with a globally accessible single namespace. Data dispersion algorithms spread the data across multiple systems and/or sites to improve accessibility and availability
- **Protects against data loss** by leveraging the extreme data durability and integrity provided by ActiveScale to ensure valuable data is protected long-term even at petabyte scale
- **Reduces capital and operating costs** by allowing nondisruptive scale-up and scale-out expansions of capacity without forklift hardware upgrades and huge data migration efforts
- **Easily integrates into existing workflows** with support for standard file, block and cloud protocols that enable applications to have immediate access to data stored on any tier of storage

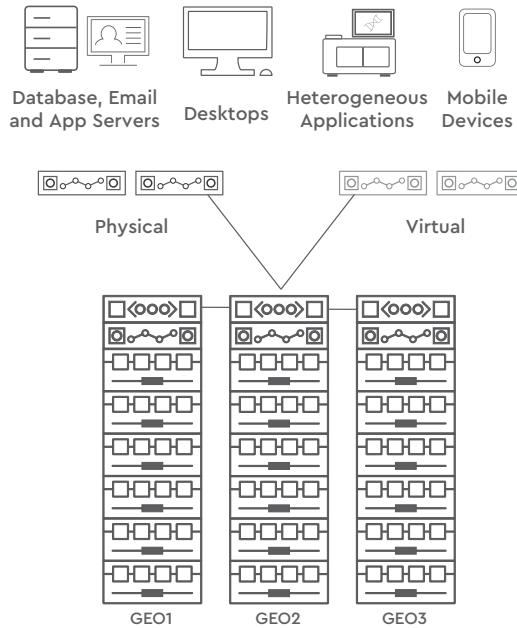
Cost-effective Scalability

Built on high-density, durable, low-cost object storage, Lattus powered by ActiveScale offers an architecture that IT staff can easily scale with additional capacity and/or performance to keep up with high data growth rates and manage it all with ease.

Outstanding Durability Protects Against Data Loss

Leveraging patented BitSpread® technology provides extreme durability to ensure data is protected in the event of device or component failure. If a disk does need to be replaced (or if additional capacity is added), Lattus powered by ActiveScale automatically and intelligently redistributes data to make full use of the new storage capacity. These capabilities ensure data is well protected and virtually eliminates unscheduled maintenance.

Quantum Lattus™ Powered by ActiveScale™



Replication and Multi-geo Support for Disaster Protection

Lattus powered by ActiveScale can be deployed across sites in different geographical locations to provide continuous data availability. Even with a full data center outage, data is protected for continuous operations.

Predictably Fast Retrieval Times

High-speed access to the data objects is provided by the low latency disk storage system to deliver predictably fast retrieval times, independent of physical location, for increased user productivity.

Changing the Economics of Large Scale Storage

Utilizing patented helium-filled hard drives, Lattus powered by ActiveScale requires less power and significantly less cooling than traditional drives, lowering opex costs. However, the true value is that Lattus powered by ActiveScale enables you to increase the value of your data by utilizing it to gain competitive advantages and even support new revenue streams.

Conclusion

Lattus powered by ActiveScale efficiently manages complex workflows with a scale up and scale out storage architecture that is designed to facilitate a "Data Forever" approach to unstructured data storage. With a high-performance file system and policy-driven data management, Lattus powered by ActiveScale delivers unprecedented protection, flexibility and efficiency into a modern enterprise-grade storage solution.

To learn more visit: www.wdc.com/dc-systems

Western Digital

5601 Great Oaks Parkway
San Jose, CA 95119, USA
US (Toll-Free): 800.801.4618
International: 408.717.6000

www.westerndigital.com

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