

Engineered for Large, Data-Intensive Workloads

Unabated data growth is now a fact of life, creating new challenges that are pushing the boundaries of legacy storage systems. Just being able to scale is no longer satisfactory. The exponential growth of unstructured data, coupled with new storage paradigms and escalating demands from line-of-business and application owners, is driving up the complexity of managing the storage environment. This increased complexity rapidly diminishes the ability of the storage infrastructure to quickly ingest, globally share, and efficiently manage large data sets of increasingly larger files, all while maintaining optimized performance levels with maximum availability. StorNext® is engineered to satisfy the modern storage requirements of the most demanding applications and workloads.

Unparalleled Combination of High Performance & Advanced Data Management

High-performance shared access to data is no longer just a requirement for primary storage and business-critical applications only. Companies now need to extract more value from all of their data, wherever located, while also maximizing their storage infrastructure investments.

The StorNext shared storage platform is purpose-built for managing large, data-intensive workloads, with the ability to efficiently and cost-effectively scale as needed to satisfy business requirements. Advanced data management capabilities empower customers to optimize capacity through policy-driven, automated storage tiering, thus reducing the need for costly primary storage. Files can be automatically and transparently moved from flash, to tape, object storage or the cloud—all while optimizing performance and maintaining high availability.

Greater Collaboration with Increased Data Protection and Availability

Whether capturing geospatial imagery, ingesting next-gen sequencing data, or collecting network traffic for cybersecurity—StorNext users are collaborating on a global scale, improving the world around us every day. And while each storage workload is different—some things remain the same: the data is invaluable, the data is growing, the data cannot be recreated, and the data must be preserved—so it can be repurposed in the future, in ways that can't be imagined today. With shared primary storage, extended online storage, tape archive, and cloud tiers, StorNext streamlines collaboration for geographically dispersed teams, by ensuring the right data is in the right place at the right time.

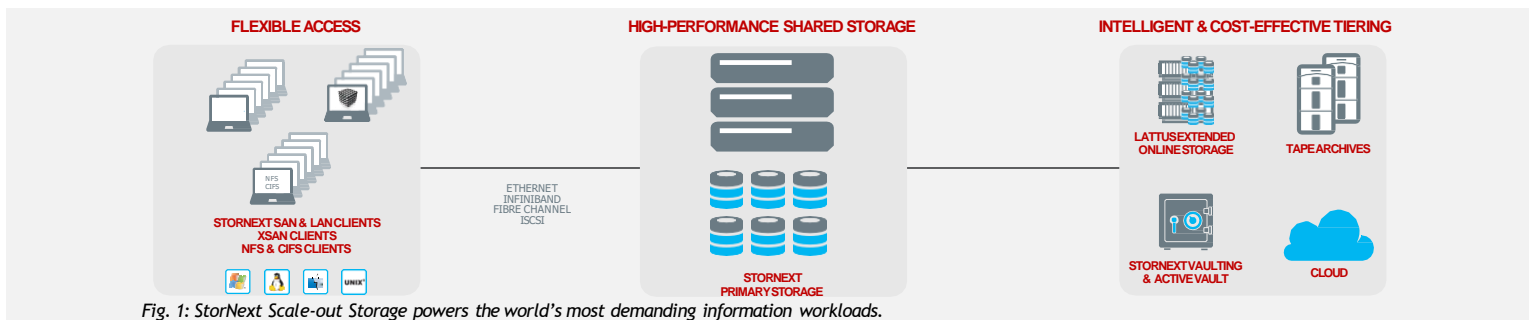


Fig. 1: StorNext Scale-out Storage powers the world's most demanding information workloads.

Features & Benefits

- Accelerating Your Business Outcomes.** Delivers an unparalleled combination of high performance and advanced data management, optimizing performance and increasing the number of projects that can be managed.
- Maximizing Scale & Collaboration.** Enables geographically dispersed teams to collaborate on large sets of large files, while optimizing performance at scale.
- Flexible Access.** Fits seamlessly into existing storage and networking infrastructure, to lower administrative costs and increase investment protection.
- Realizing the Economics of Tiered Storage.** Automates the efficient movement of less-frequently used data to the most cost-effective, “green” storage, enabling transparent access to files regardless of whether stored on flash, disk, object storage, LTO/LTFS tape, or in the cloud.

Building Blocks of the StorNext Architecture

The building blocks of the StorNext architecture include primary storage, extended online storage, tape archives, and cloud—all powered by StorNext high-performance shared storage file system and advanced data management software.

StorNext Advanced Data Management

StorNext advanced data management software manages file sharing in StorNext scale-out storage environments, for files stored on primary disk, extended online storage, tape, and cloud. StorNext meets the most demanding performance requirements, enables customers to scale to hundreds of petabytes, and integrates easily into collaborative workflows. StorNext data management, with its high-performance file system and policy-driven tiering software, combines performance, scale, and flexibility into a whole that is greater than the sum of its parts.

Primary Storage

StorNext primary storage enables high-speed shared access to your critical data. Powered by StorNext advanced data management software, it includes a metadata appliance with a dedicated metadata array, and RAID storage for data. This combination of software, compute, and storage is engineered to solve the world’s biggest storage challenges—and enables you to focus on your business rather than the storage. So you can do what you do best.

Extended Online Storage

Built on next-generation object storage technology,

Lattus™ is durable online storage that scales to hundreds of petabytes—more economical than primary storage, with better performance than tape. As a policy-driven tier in a StorNext scale-out storage solution, Lattus enables you to extend primary storage with scalable and more cost-effective online storage—ideal for large repositories that have unpredictable access patterns, and for organizations struggling with the challenges of data growth.

Tape Archives

When attached to StorNext primary storage and powered by StorNext advanced data management software, tape archives provide a tier of massively scalable storage. StorNext tape archives enable you to preserve data for the long-term without the cost, space, power consumption, and management of primary disk. With StorNext tape archives and Scalar® tape libraries, you get best-in-class management, monitoring, and data security from the market share leader in LTO tape automation.

Cloud Storage

Quantum FlexTier™ is storage freedom for businesses that struggle to balance capacity, costs, and growth that come with managing content in rapidly changing environments. StorNext users have easy access to cost-effective, on-demand cloud storage for increased flexibility, data protection, and availability. FlexTier is integrated with StorNext so there is no additional hardware or software, separate applications, or programming. FlexTier integrates cloud into workflows for reliable, always-available storage and maximum flexibility. Precisely the right amount of storage, exactly when you need it.



Fig. 2: Large, data-intensive workloads served by Quantum’s StorNext Scale-out Storage.

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