Western Digital and NGX Storage Deliver Unified Storage Systems to Handle Exponential Data Growth

Highlights

- **Breakthrough Economics:** Leverages intelligent, fully automated storage technology to reduce Opex and Capex costs
- **Reduced Rack Space:** By consolidating block, file and object storage into a compact, single platform with enterprise-grade storage technology
- **Increased Performance and Stability:** Boosts performance and reliability with an integrated solution to manage your business-wide workloads with high availability
- **Simplified Scalability:** Enables simple scalability in the future as needed to keep pace with rapid data growth

Challenges

- **Skyrocketing Costs:** Exploding data rates are pushing infrastructures to store more data for longer periods of time, often within a flat or shrinking IT budget
- **Management Difficulties:** Inflexible legacy solutions can't keep pace with data growth, resulting in silos of data that are complex, expensive and costly to manage
- **Increasing Demands:** Ensuring critical data and workloads are always available and that replication is keeping multiple geographical sites in sync

Solution

The combined solution of NGX Storage with Western Digital Ultrastar® storage platforms delivers scalable, composable, efficient and cost-effective storage, in a unified storage system to handle exponential data growth while minimizing costs.

Data Storage Is the Heart of Digital Transformation

Data is the world's most valuable resource. Digital transformation leverages that data to drive innovation, automate processes and guide strategic decisions that can make or break your business. Changing business models, governmental regulations and increased usage of multimedia are exponentially increasing the amount of data generated every day and with it, the need to store and process that data to transform business models and increase productivity.

Breaking Down Data Storage Barriers

NGX Storage helps organizations meet data growth challenges and adopt new technologies with its unified storage architecture which supports block, file and object protocols together. As a leader in the field, Western Digital has partnered with NGX Storage to deliver enterprise-grade innovative data storage platforms. These solutions bring seamless scalability and efficiency while providing extreme performance, reliability and manageability without compromising enterprise resiliency. Western Digital storage platforms combined with NGX Storage make it easy to build performant, low-power and highly available storage solution for both enterprises and cloud organizations.

Boosted Performance and Minimized Cost

The combined solution of NGX Storage high-tech controllers and Western Digital Ultrastar storage platforms delivers a highly available, scalable and cost-effective enterprise grade unified storage system to handle exponential data growth while minimizing costs. This powerful solution provides the following benefits:

- **Performance** – NGX Storage can easily fulfill any modern data center workloads with consistent performance at petabyte scale capacities.
- **Reliability** – Western Digital's ArcticFlow™ and IsoVibe™ technologies and NGX Storage's triple-parity and quad-mirroring features minimize drive returns and provide unmatched data protection.
- **Scalability** – Dense shared storage that provides petabytes of capacity into a single cabinet that can be scaled to meet changing needs.
- **Compatibility** – With NGX Unified Storage System, Western Digital Ultrastar storage platforms can be used as block, file and object storage at the same time.
- **Efficiency** – NGX Storage Systems are fully automated to minimize operational costs, reduce production downtime and enable proactive intervention before failures occur.

A Winning Partnership for Enterprise-Grade Unified Data Storage

Data storage doesn't have to be so complicated. By combining NGX Storage with Western Digital Ultrastar storage platforms, you can add scalable, high-performance and highly reliable capacity to your environment easily and affordably.

Western Digital Ultrastar storage platforms provide the perfect direct-attached storage (DAS) for the NGX Storage controllers. This family of "just a bunch of disks" (JBOD) platforms combines excellent density, strong performance and flexible capacity in a simple, affordable solution.

Ultrastar storage platforms connect directly to NGX Storage high-tech controllers. Within seconds, you can store and manage data reliably and with boosted performance—no complicated configurations or complex architectures required.

The Ultrastar platform makes it easy and inexpensive to increase capacity. Start with as few as 24 HDDs and scale all the way up to 1.2 petabytes[1] (raw) as your capacity requirements grow—all in a compact 4U form factor. And, if you find you need even more capacity, attach up to 16 Ultrastar platforms together with NGX Storage, to expand to multi petabytes of storage at a fraction of the cost of other solutions.

NGX Storage and Western Digital help you meet your performance needs and keep pace with rapid data growth within the limits of your IT budget.
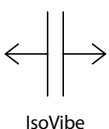
An Industry Leader in JBOD Storage

Direct-attached storage platforms don't have to be complicated, but you wouldn't know it looking at other solutions on the market. Many high-capacity storage enclosures include features and performance that enterprises rarely need, with a price tag to match. Others offer simple JBOD storage—but keep costs down by skimping on components, manufacturing and warranties.

Western Digital's Ultrastar storage platforms include unique technologies not found in any other storage platform: patented IsoVibe and innovative ArcticFlow. IsoVibe reduces vibration-induced performance degradation, while ArcticFlow overcomes the cooling issues by introducing cool air into the middle of the platform. Combining these technologies with HelioSeal® hard drives provides a solution designed for long-term reliability and reduced drive returns, enabling the safekeeping of all the digital content stored on the platform.
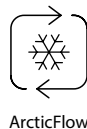
Get Started

Legacy storage systems can't handle the demands of today's data growth. Multiple disparate storage systems are expensive to maintain and the silos they create make it difficult to leverage the value of data. Western Digital and NGX Storage together can help enterprises modernize their data storage infrastructures with highly scalable and available unified storage solutions. Our solutions can be used in real-time streaming, rendering, enterprise file services, big data analytics, artificial intelligence applications and most other mission-critical applications.

For more information on how NGX Storage paired with Western Digital's Ultrastar storage platforms can turbocharge your data storage infrastructure and improve business operations, visit www.ngxstorage.com.

IsoVibe Vibration Isolation Technology

Precise cuts in the baseboard provide a suspension for the drives in the chassis, isolating them from transmitted vibration. The result is that consistent performance is maintained, even when all the drives are working hard.

ArcticFlow Thermal Zone Cooling Technology

By Introducing cool air into the center of the chassis, drives operate at lower and more consistent temperatures than conventional systems. This results in lower fan speeds, reduced vibration, lower power consumption, quieter operation and ultimately higher reliability.

Western Digital.