

Unlock the Power of Your Data



Western Digital

Case Study

Russian Media Production Company and Entertainment TV Channel Consolidates Storage with QSAN and Western Digital



Challenge

The organization's existing storage infrastructure was nearing the end of its useful lifetime. It was reaching maximum capacity, not providing enough sustained performance and needed upgrading to accommodate rapidly growing amounts of data.

Solution

An open, flexible storage solution based on Western Digital's Ultrastar Data102 hybrid storage platform and QSAN XCubeSAN Unified Storage Controller.

Key Results

The combined solution of Arcserve with Western Digital's Ultrastar Hybrid Storage Platforms provides protection of business-critical data across hybrid physical, virtual and cloud environments with a highly reliable, easily scalable and economical data protection environment that makes data backup and archiving simple and affordable.

Organization Profile

This well-known company specializes in entertainment media production including films, TV projects, shows and advertising. Its projects are highly popular, both in Russia and abroad.

Every year this company creates thousands of hours of video content and this amount is constantly growing. In addition, with video resolution increasing to 8K for digital media content, the demand for much more storage space was accelerating exponentially. The company needed a new storage system that could support their future expansion efficiently and economically.

Meeting Immediate and Future Data Storage Needs

As the amount of digital media content grew, their existing NAS storage systems were not able to keep up and quickly deliver massive media files when needed. The company investigated adding additional NAS systems but finding adequate space and network links for expansion was complicated. It was extremely important for the company to find a top-notch storage solution to cope with their growing data storage needs. The company needed a flexible, reliable and easy-to-scale storage infrastructure to meet their current and future data storage requirements. In addition, any solution selected had to be extremely reliable and robust. Their business would not tolerate any significant downtime.

QSAN and Western Digital Team up to Deliver a Modern Data Experience

To address these challenges, the company selected a powerful storage architecture based on the QSAN XCubeSAN Unified Storage Controller and the Western Digital's Ultrastar® Data102 hybrid storage platform. QSAN Technology, a leading storage technology designer and manufacturer, strives to build enterprise-class storage systems that provide outstanding performance, secure data protection and comprehensive data management. The QSAN XCubeSAN provides a high-quality data storage system that is simple, secure, scalable and reliable. In addition, QSAN brings a multitude of enterprise features to make storage applications more efficient, including SSD read-write cache (QCache), auto-tiering (QTiering), snapshot (QSnap), local volume clone (QClone) and features to improve data acceleration and protection.

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Due to the huge volume of data being stored, an extremely large but yet expandable storage system was required. QSAN certified Western Digital's Ultrastar Data102 hybrid storage platform as the best choice in this situation to pair with the QSAN XCubeSAN Unified Storage Controller. The combined solution takes just 6U of rack space and provides up to 2.0PB¹ raw capacity and allows further expansion without significant downtime. Each QSAN storage controller can support up to 4 Ultrastar storage platforms.

Western Digital Better Together

To improve the reliability and efficiency of this critical storage infrastructure, the Ultrastar Data102 hybrid storage platform filled with Ultrastar HelioSeal[®] hard drives was selected. The Ultrastar Data102 includes unique technologies not found in any other storage platform: patented IsoVibe[™] and innovative ArcticFlow[™]. IsoVibe[™] reduces vibration-induced performance degradation, while ArcticFlow[™] overcomes the heating issues by introducing cool air into the middle of the platform. Combining these technologies with Helio Seal hard drives provides a solution designed for long-term reliability and reduced drive failures, enabling the safekeeping of all the digital content stored on the platform. Western Digital's Ultrastar platforms provide a simple, affordable storage solution for QSAN environments which reduces power consumption, improves reliability and lowers TCO.

Immediate and Powerful Results

The combined solution of QSAN XCubeSAN with Ultrastar Data102 provided the company with a powerful storage solution that delivered all requested features and allows for future upgradeability and extensions. With 102 HDDs per dual controller, the demanded performance was met at all times, even without hitting the cache. The RAID60EE technology also allowed for both space-savings and cost-savings, while significantly reducing RAID rebuild times and avoiding impacts on daily operations. Thanks to QSAN and Western Digital, the company has consolidated its file sharing and archival storage into a very small footprint. Petabytes of archival data are now stored in just a 6U rack space securely and economically. Also, the company's content producers have the 10 performance needed for fast access to all the files without congestion.

Get Started

For more information on how QSAN and Western Digital work together to enhance your data storage infrastructure and improve your business operations, visit westerndigital.com/platforms.

¹One GB is equal to one billion bytes and one TB equals 1,000GB (one trillion bytes). Actual user capacity may be less due to operating environment.