

CASE STUDY CASE WESTERN RESERVE UNIVERSITY



LEADING RESEARCH UNIVERSITY CHOOSES NEXSAN UNIFIED HYBRID STORAGE FOR PERFORMANCE IN A VIRTUALIZED ENVIRONMENT

SUMMARY

Case Western Reserve University had an immediate need for a storage system that provided high-performance, high-capacity, availability and reliability with no single-point-of-failure. Nexsan Unified Hybrid Storage met all their requirements.

ABOUT CASE WESTERN RESERVE UNIVERSITY

Founded in 1826, Case Western Reserve University is a private research university located in Cleveland, Ohio, USA with a strong reputation as one of the nation's leading, independent research universities. Case Western Reserve remains the only independent, research-oriented university in a region bounded by Pittsburgh and Rochester on the east, Nashville on the south, and Chicago on the west, Case Western Reserve holds membership in the Association of American Universities.

With an endowment of more than \$1.4 billion, Case Western Reserve supports about 100 designated academic and research centers, and receives nearly \$400 million in external research awards each year. Their eight schools and college offer close to 200 top-ranked undergraduate, graduate, and professional programs that range from arts, law, and humanities to engineering and medicine.

According to U.S. News and World Report: America's Best Colleges, Case's undergraduate program is ranked #1 in Ohio and #38 among national universities, including health law and social work at #8 and biomedical at #10. In addition, the university has been rated #7 in the Washington Monthly College Guide and recognized in The Princeton Review's Guide to 322 Green Colleges.

BUSINESS SITUATION

With research comes data and with data comes the need for reliable storage. Case's research efforts involve large stores of raw research data, variable size stores of intermediate type data and small stores of results data. Brian Christian, Senior Technical Lead in the Information Technology Services Design Group at Case Western Reserve University, was tasked with finding a solution that would support 200TB of storage today and scale up to a petabyte tomorrow.

Christian explains: "The Nexsan Unified Storage was a perfect fit for Case's needs. It met all of our availability and reliability requirements. We can do rolling upgrades with no downtime and survive single points of failure. It offered the best price/performance of any solution we evaluated and it can grow and scale with us. Plus, it was available for use immediately vs. being on some vendor's product roadmap."



Case Western Reserve University improves and enriches people's lives through research that capitalizes on the power of collaboration, and education that dramatically engages our students.

NEXSAN

1287 Anvilwood Avenue
Sunnyvale, CA 94089

866.4.NEXSAN
www.nexsan.com

ENVIRONMENT

- Two Unified Hybrid Storage Systems
- 200TB of block and file data
- HPC Cluster architecture
- Plans to deploy VMware

NEXSAN UNIFIED HYBRID SERIES BENEFITS

- iSCSI block and NFS/CIFS shared folders
- Enterprise-class reliability
- Online capacity expansion
- Caching acceleration technology
- Snapshots
- Replication
- Thin Provisioning



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NEXSAN UNIFIED HYBRID STORAGE SYSTEM

The Nexsan Unified Storage delivers exceptional performance without the capacity limitations and high price points of SSD-only solutions. Nexsan's Hybrid Storage with caching acceleration technology intelligently optimizes caching by utilizing DRAM, NVRAM and flash-based solid state memory, along with spinning media, to multiply random I/O performance. The system delivers true high performance for block and file data, sending both.

RESULTS

Nexsan Unified Storage was the right fit for Case's needs. Reliability, capacity, scalability, and performance; the NAS met and exceeded each of these requirements while remaining affordable and immediately available. Nexsan's solutions can now be found campus-wide at Case Western Reserve University where multiple research groups support a variety of data storage needs including imaging, data transfer, archiving and a high-performance computing (HPC) cluster. Case is also expanding a VMware virtual server environment that will be supported by Nexsan.

ABOUT NEXSAN

Nexsan® is a global enterprise storage leader since 1999 delivering the most reliable, cost-effective and highly efficient storage solutions. Nexsan's solution portfolio empowers enterprises to securely store, protect and manage valuable business data with a broad product line of unified storage, block storage, and secure archiving. www.nexasan.com.



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BRIAN CHRISTIAN

SENIOR TECHNICAL LEAD
CASE WESTERN RESERVE UNIVERSITY