

Lenovo Converged Server SAN Appliances Powered by DataCore

Solution Benefits:

- Maximize the value from storage investments, current and future.
- Optimize performance of latency-sensitive applications.
- Automate and centralize storage management.
- Enable “zero downtime, zero touch” availability of data.

SDS APPLIANCES TAILORED FOR YOUR NEEDS

Lenovo™ Converged Server SAN appliances, Powered by DataCore™ software, provide a comprehensive and scalable storage services platform designed to maximize performance, availability, and utilization.

These software-defined storage appliances offer the following benefits:

- Applications run faster and uninterrupted.
- Small footprint reducing space, heating and cooling.
- More capacity at a lower cost, providing the most value.

The net result is better performance and availability for databases, VDI, and other applications, both virtualized and physical, at a much lower cost (both CAPEX and OPEX).

OPTIMIZE NEW STORAGE

The Lenovo storage solutions Powered by DataCore quickly and cost-efficiently deliver a high speed, highly available storage infrastructure for critical applications. The solutions have the following advantages:

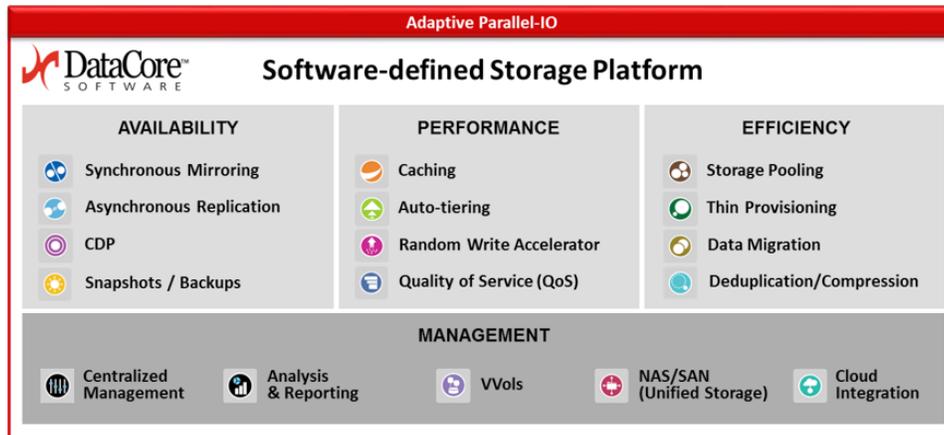
- High performance, reliable System x series servers from Lenovo.
- Automated, high-availability configurations providing the lowest TCO.
- Easy-to-deploy appliance to accelerate applications.

USE CASES

	Accelerate Applications	Improve Availability	Refresh Storage
NEEDS	Fastest I/O performance and lowest cost-per-IOPS to support high-performance critical applications.	Applications need a highly available infrastructure ensuring 24x7 uptime, regardless of planned or unplanned downtime.	Improve performance of applications, add capacity and increase availability, while reducing direct and indirect costs.
CHALLENGES	Current approach to meet performance of latency-sensitive applications is expensive and difficult to scale.	Highly available storage typically requires manual intervention and large capital outlays for the software and hardware.	Changing storage is extremely disruptive, both from an application and manageability perspective.
SOLUTIONS	Combines DataCore Parallel I/O Technology with ultra-low latency RAM caching and mix of flash and magnetic drives to provide both high performance and an affordable solution.	DataCore “zero downtime, zero touch” solution automates failover and leverages existing storage to reduce costs.	Provide best value in terms of performance, availability and capacity while making it easy to migrate data and manage storage.



The DataCore storage services eliminate storage silos and future-proofs your investment.



Example: Storage Refresh at Service Provider

A service provider was ready for a storage refresh, which included adding more capacity. Their requirements for a new storage system were many. Since they had a diverse set of clients, they had unpredictable performance spikes, which had overtaxed their current storage array, leading to dissatisfied customers. In addition, they needed to ensure that their customers' critical applications were available 24x7, which meant that the storage system needed to be highly available. Next, the service provider needed to meet customers' requests quickly, from provisioning new applications to increasing capacity. Lastly, given the tight margins of their business, they needed the lowest total cost of ownership.

The service provider chose a 4 node Converged Server SAN Powered by DataCore. Compared to an alternative proposal from a tier 1 storage vendor, the service provider had a solution that was 5x faster with 20% more storage capacity in a 75% smaller footprint, all for 40% less direct cost. In addition, the DataCore software provided them "zero downtime, zero touch" availability so their data was always available and the agility they needed to meet their customers' requests quickly and efficiently. In the end, the service provider has faster applications, better availability, easier management and more capacity with lower TCO.

Base Hardware Configurations

System x3650 M5	System x3650 M5	System x3650 M5	System x3650 M5
ENTRY MODEL	MIDRANGE MODEL	ULTRA MODEL	ENTERPRISE MODEL
CPU 2 x Intel® Xeon® E5-2620 v4 series processors (16 Cores total)	CPU 2 x Intel® Xeon® E5-2620 v4 series processors (16 Cores total)	CPU 2 x Intel® Xeon® E5-2620 v4 series processors (16 Cores total)	CPU 2 x Intel® Xeon® E5-2620 v4 series processors (16 Cores total)
Memory 128GB RAM	Memory 256GB RAM	Memory 512GB RAM	Memory 768GB RAM
Network 6 x 10GB iSCSI ports (FC ports Optional)	Network 6 x 10GB iSCSI ports (FC ports Optional)	Network 6 x 10GB iSCSI ports (FC ports Optional)	Network 6 x 10GB iSCSI ports (FC ports Optional)
Storage 8.4TB usable capacity	Storage 16.8TB usable capacity	Storage 33.6TB usable capacity	Storage 67.8TB usable capacity



Learn more at solutions.lenovo.com/heart-of-the-datacenter.

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