



# Simplified Virtualization with Enterprise-Grade External Storage

Organizations modernizing infrastructure with hyperconverged platforms often still require external storage for specific needs: large unstructured datasets, video retention, centralized file services, backup repositories, regulatory and compliance archives, or to preserve existing SAN or NAS investments. *SC//HyperCore™* virtualization suite delivers simple, highly available virtualization and integrated storage from the data center to the edge, while Nexsan® provides secure, cost-effective storage systems that scale independently in capacity and performance. Together, they enable IT teams and partners to right-size compute and storage, reduce operational complexity, and improve cyber resiliency without forcing an all-or-nothing redesign.

## Where This Joint Solution Fits Best

This solution is best suited for customers who require external storage capacity to handle large or rapidly growing datasets, such as surveillance footage, backups, file archives, and image repositories. It is also ideal for organizations looking to modernize their compute and virtualization environments while preserving or complementing their existing storage investments. Environments with lean IT teams or distributed operations benefit from its simplified management and predictable scalability, allowing infrastructure to grow without adding significant operational complexity. Additionally, the solution is well aligned for value-added resellers (VARs) and managed service providers (MSPs) that want to deliver repeatable, scalable solutions tailored to vertical markets such as retail, healthcare, manufacturing, education, and government.

## Key Benefits

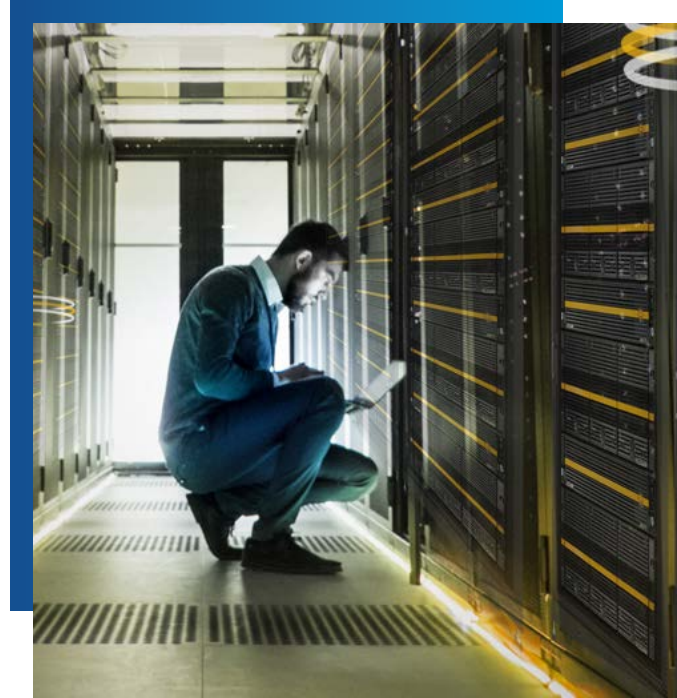
- Improve cyber resiliency with immutable snapshots/object locking and fast restore options.
- Extend storage capacity beyond local cluster limits for data-heavy workloads.
- Scale compute and storage independently to match real-world growth patterns.
- Lower total cost of ownership with simplified operations plus dense, efficient storage platforms.
- Support multiple protocols and workload types (block, file, and object) to reduce storage silos.
- Build edge-to-core architectures that keep sites operational while centralizing long-term data.

## The Challenge: Modern Compute Needs Flexible Storage Options

Many IT teams face one or more of the following realities:

- HCI simplifies virtualization, but some workloads require more capacity than local cluster storage provides.
- Data growth (surveillance footage, images, files, backups) outpaces compute growth; scaling storage should not require scaling compute.
- Existing SAN and NAS investments continue to deliver value, but legacy compute environments can be costly to maintain and hard to manage.
- Security and compliance requirements increasingly demand immutable snapshots, encryption, and fast recovery options.

As data growth accelerates faster than compute growth, tightly coupled scaling becomes inefficient. External storage provides the flexibility to right-size infrastructure while maintaining operational simplicity.



## Joint Solution Overview

*Scale Computing™* and Nexsan combine complementary strengths to deliver a balanced, edge-to-core infrastructure solution:

### SCALE COMPUTING (SC//HYPERCORE™)

- Runs virtual machines with an integrated, pooled storage layer (SCRIBE) and high availability built in.
- Ideal for edge and distributed sites that need simplicity, resilience, and centralized fleet operations.
- Lets you keep performance-sensitive or day-to-day VMs and storage on the cluster, where operations are simplest.

### NEXSAN STORAGE SYSTEMS

- Provides enterprise-grade external storage for block, file, and object use cases with flexible performance and expandable capacity options.
- Ideal for centralized or data-heavy storage needs including backup/DR, surveillance, archive, file services, and compliance.
- Lets you offload, centralize, or protect large datasets without forcing compute expansion.

Together, the solution allows performance-sensitive or operational workloads to remain on the hyperconverged cluster, while large datasets are centralized, protected, and scaled externally.

## Deployment Patterns

- 1. External storage for select VMs (block)**  
Attach Nexsan storage to specific SC//HyperCore virtual machines using iSCSI. This pattern is ideal when a subset of workloads needs higher capacity, shared storage, or distinct performance tiers.
- 2. Centralized file services, archive, and backup (file/object)**  
Use NFS/SMB shares for file-based workloads and long-term retention, and leverage S3 object services when an object repository is preferred (for example, immutability and lifecycle workflows).
- 3. Edge-to-core data strategy**  
Run applications and operations at the edge on SC//HyperCore and centralize large datasets in the core using Nexsan storage. This supports use cases like multi-site surveillance retention, centralized analytics, and consolidated backup repositories.

### How It Works

A typical deployment follows three straightforward steps:

- 1.** Configure the Nexsan system for iSCSI, NFS, SMB, or S3 access (create LUNs/targets or exports and set permissions)
- 2.** Connect storage to SC//HyperCore VMs (add iSCSI target details or mount NFS shares within the VM).
- 3.** Assign storage to the right jobs: high-capacity VM disks, file shares, backup repositories, or archival data.

## Nexsan Product Highlights

### UNITY NV-SERIES™: ONE PLATFORM, ANY WORKLOAD

Unity NV-Series unifies block, file, and S3 object storage in all-flash or hybrid configurations. Each model includes a full software suite (e.g., caching, immutable snapshots, replication, and cloud connectivity) without per-feature licensing.

Common scenarios to lead with Unity NV-Series:

- Mixed workloads that need both block and file services from a single platform.
- Ransomware resilience and rapid recovery with immutable snapshots and S3 object locking.
- Edge-to-core growth paths (start small at the edge and expand to multi-petabyte footprints).

### E-SERIES P (48P/60P): ULTRA-RELIABLE BLOCK STORAGE ARRAYS

E-Series P arrays deliver enterprise-grade block storage with multiple host connectivity options (including Fibre Channel, SAS, and iSCSI), designed for reliability in challenging environments and high availability through redundant, hot-swappable components.

Common scenarios to lead with E-Series P:

- High-density SAN storage for surveillance, media, and other capacity-heavy block workloads.
- Environments that value rugged reliability (e.g., edge closets, constrained spaces, variable conditions).
- Situations where encryption at rest and strong uptime features are required.

## Primary Use Cases

### USE CASE



Video surveillance retention and evidentiary storage



Backup and disaster recovery repositories



Unstructured file services and long-term archive



Regulated industries and compliance-driven retention

### WHY SCALE COMPUTING + NEXSAN

Scale Computing runs VMS/analytics VMs at the edge; Nexsan provides high-density storage for long retention windows.

Use Nexsan as a scalable, secure target for backup data, to enable strong retention and recovery strategies.

Centralize file shares and archives on Nexsan while keeping apps and operations on SC//HyperCore.

Pair simplified virtualization with storage features aimed at immutability, auditing, and encryption to support compliance workflows.



The industry's largest edge-first platform company, uniquely positioned to power the AI-driven future of distributed enterprises. Providing edge computing, managed network security, re-virtualization and hyperconverged solutions, *Scale Computing™* delivers an integrated infrastructure that adapts and scales from one to 100,000 locations. Thousands of organizations around the world rely on Scale Computing to power critical applications with unparalleled ease.

Learn more at [scalecomputing.com](https://scalecomputing.com)



Nexsan provides secure, reliable, high-performance data storage purpose-built for mission-critical environments. With industry-leading immutability, efficiency, and simplicity, Nexsan solutions protect, manage, and scale data across diverse workloads. Trusted worldwide, Nexsan enables organizations to operate with confidence, maintain compliance, and safeguard their most valuable digital assets at all times.

Learn more at [nexsan.com](https://nexsan.com)



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