



Jumpstart File and Object Modernization

With Cohesity SmartFiles and Cisco UCS servers

We make it easy to consolidate data silos and simplify data and application management.

Unstructured file and object data continues to grow at a fast pace. Traditional approaches to ever-expanding requirements often result in data silos and fragmented infrastructure that cannot deliver data in time. For many, using network-attached storage (NAS) or standalone object storage everywhere is not a cost-effective option. Also, some legacy NAS solutions offer limited scalability or require integration of multiple products to create an effective data management strategy.

Cohesity SmartFiles and Cisco UCS® S3260 Storage Servers create flexible data infrastructure that delivers business value. This modular, software-defined approach makes it easy to manage unstructured data at scale and implement global search capabilities, while helping reduce security risks. With this solution, you can:

- Modernize target storage for backup applications
- Consolidate file service silos into a secure file repository
- Tier unused or infrequently used data to free primary NAS infrastructure

Effortless data and application management
with Cohesity software running on Cisco UCS

COHESITY

Highlights

- **Simplify multicloud data management** for improved visibility and control
- **Search globally** for deep and data-centric results
- **Improve TCO** by matching workloads, capacity, and cost
- **Reduce security risks** with a multilayered security approach that helps deter, detect, and respond to threats

Flexible storage

Cisco UCS S-Series Storage Servers deliver rapid scalability and performance to activate your data and insights in real time. Our modular architecture lets you right-size infrastructure for the workload and operate with the efficiency and predictable TCO you need. These dual-server nodes offer:

- **Massive storage capacity** that lets you scale to petabytes in minutes, using HDDs, SSDs, NVMe, or a combination
- **High performance** with a dual-server node architecture using Intel® Xeon® Scalable processors so you can strike the right balance between compute and capacity
- **Architectural flexibility** that provides maximum investment protection
- **Policy-driven storage management** that unites all compute and storage functions and taps into advanced automation
- **Unified I/O** for Ethernet or Fibre Channel to existing NAS or SAN storage environments



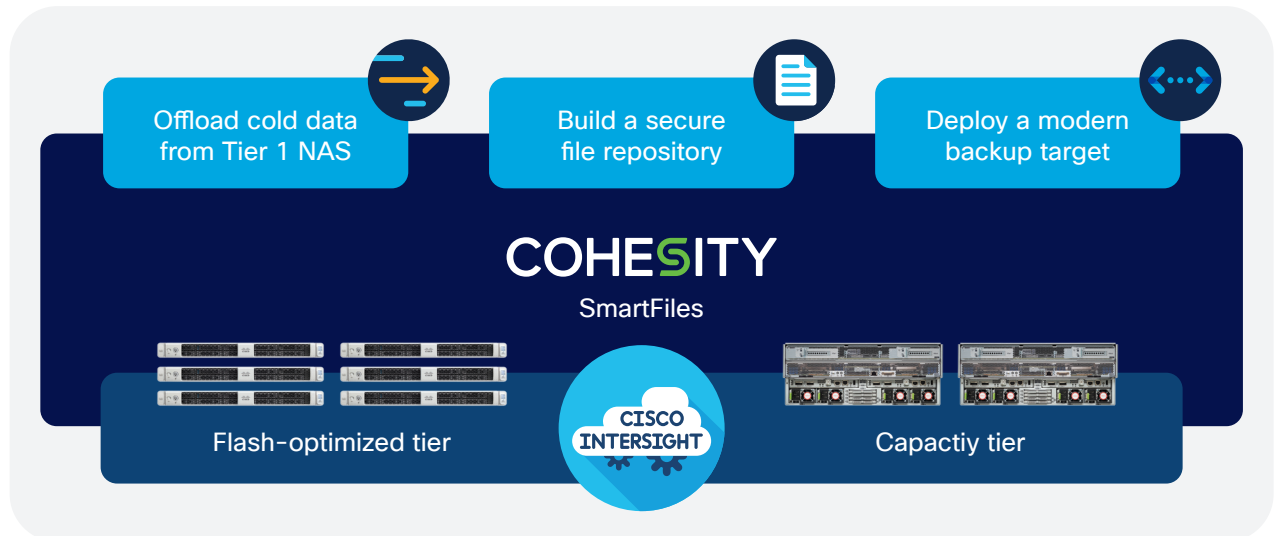
Cisco and Cohesity solution

With Cohesity SmartFiles software running on Cisco UCS S-Series Storage Servers, you can deploy a modern, software-defined, unified file-and-object solution that protects your existing NAS investments while providing a better way to manage unstructured data at scale. Unlike traditional NAS deployments, the solution takes a data-centric approach. That means you don't have to move your data to applications for access and processing—it's all integrated in one platform.

Backed by Cisco Validated Designs, the solution brings the power of hyperconvergence to data and management, creating a unified architecture for tiered data storage, file and object services, and data protection.

Our verified, lab-tested architecture with detailed design and implementation guidance helps reduce risk and guesswork by giving your IT administrators and architects a guidebook for implementation. With this flexible architecture, you can choose the server configurations that best match your computing, performance, and data management needs, and eliminate the cost and complexity of running disparate file ecosystem applications and infrastructure. The solution:

- Supports NFS, SMB, and S3 protocols for broad compatibility on premises and in the cloud
- Uses a unique distributed file system to deliver resiliency and consistency
- Lets you grow at your pace with incremental scaling and linear performance and capacity



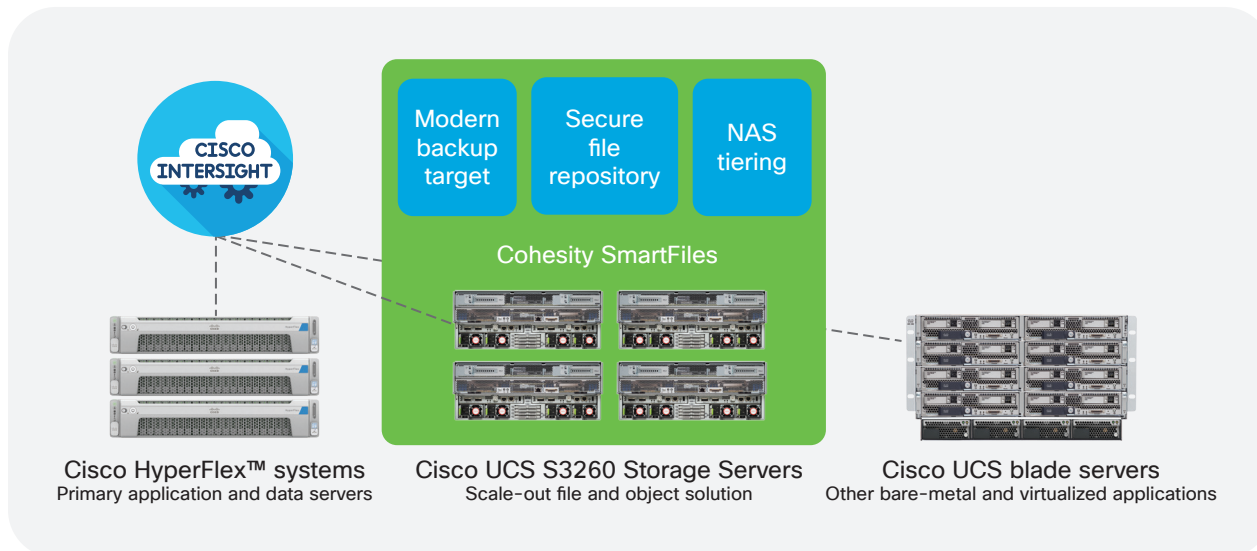
Designed to tackle data management challenges

The architecture provides a high-density file services solution that goes beyond traditional approaches to deliver enhanced capabilities at scale. Within the solution, a dual-node Cisco UCS S3260 Storage Server provides both flash and capacity storage tiers, while a multinode cluster runs Cohesity SmartFiles to connect to primary storage and public clouds.

Multiple deployment scenarios are supported:

- **Cohesity SmartFiles cluster as a backup target:** You can replace your tape-based infrastructure with a modern, massively scalable backup target that allows fast data access, recovery, and cyberthreat detection and response.

- **Cohesity SmartFiles as a secure file repository:** You can consolidate inefficient data silos onto a cost-effective solution to better manage unstructured content and application data, including digital libraries, archives, rich media, video surveillance, big data, and backup data sets. You also get to choose whether to host your data on faster SSD storage or slower, less expensive HDD storage, depending on your workloads and access requirements.
- **Cohesity SmartFiles for external NAS tiering:** Optimizing your use of primary storage is one way to get costs under control. With our joint solution, you can use a tiered data approach, with unused or infrequently used data automatically moved from high-performance Tier 1 storage to the Cisco and Cohesity cluster or the cloud for ready access at lower cost.



Why Cohesity

With a unique distributed file system, Cohesity software consolidates backup data, files, and objects with best-in-class space efficiency and zero-cost clone copies. With this software-defined platform, you can:

- Eliminate unnecessary data silos
- See and control your data across all locations and workloads
- Reduce your data footprint with global variable-length deduplication, compression, and erasure coding

Cohesity SmartFiles

Cohesity SmartFiles simplifies data and application management at scale. With a data-centric approach, your data is visible and manageable whether it resides on premises or in the cloud.

- Improve data and application mobility with automated data tiering and archiving
- Accelerate content and metadata searching
- Mitigate risk from cyber threats and ransomware

Simplify management

Cisco Intersight™ cloud-operations platform provides a central control point, giving you instant access to your clusters and servers regardless of location. Parallel, heterogeneous deployment supports the scale you need to manage distributed locations, and a full-stack upgrade allows you to easily update the entire stack, including the firmware, hypervisor, and data platform. Cohesity software integrates with your existing scripts and tools, and offers native integration with leading public clouds.

Learn more

- [Cisco UCS S3260 Storage Server](#)
- [Cohesity SmartFiles](#)

Read the Cisco Validated Designs for [file services](#), [data protection](#), [backup](#), and [more](#).

Simplify and scale without limits

Our solution lets you integrate a broad NAS ecosystem on a single platform. The antivirus protection, file audit, and content search capabilities all run on a single platform. No additional infrastructure is required. Because the solution uses a highly available, web-scale distributed file system architecture, your data platform can grow on demand. It also means it's easy to scale throughput: simply add more nodes to the cluster to increase I/O.

Gain visibility

Data silos lead to dark data and the inability to derive business value. That's why our solution is designed to make data visible and manageable whether it resides on premises or in the cloud. File metadata and content are indexed to accelerate search results. You can search your data across silos, virtual machines, data centers, backups, remote sites, and multiple clouds.

Data access is also easy. No matter what OS your users prefer to use, our solution sets file permissions so that data is mapped for transparent NFS and SMB file access. Files and objects can be accessed simultaneously, and all data is always available as S3 for seamless interoperability.

Reduce total cost of ownership

The solution delivers a variety of benefits that help lower the cost of operation and ownership:

- Hardware infrastructure with less cabling and lower power requirements
- Dramatically reduced data footprint with global, variable-length sliding window deduplication and compression
- No disruptive and expensive forklift upgrades, allowing you to incrementally upgrade hardware and perform software upgrades and expansion
- Built-in capabilities that support compliance initiatives, including immutability and retention

Reduce risk

No matter its location, your data is always protected and preserved with integrated layers of security features and file functions. Plus, intelligent policy-based management and automation help ensure the efficient placement, governance, and protection of your data.

Get started

With decades of industry expertise and superior technology, we can help you optimize your data infrastructure. Our innovative approach can help you streamline data management for files and objects, and support your strategic goals for improved data resiliency, security, and agility. Let us show you how.