NetApp

SIMPLE, IMMUTABLE BACKUP FOR STORAGEGRID® WITH SPECTRA LOGIC

SPECTRA

Automated, Amazon S3-compatible object backup to secure object-based tape

Reliable Backup Starts at the Object Level

Data growth shows no signs of slowing down, and neither does the risks that surround it. IT teams face mounting pressure to protect unstructured data at scale while managing costs, meeting compliance demands, and defending against evolving cyber threats. Traditional cloud or disk-based backup methods often come with high fees, long retrieval delays, and vulnerability to cyber threats. Meanwhile, public cloud tiers designed for infrequently accessed data can lead to unpredictable costs and control concerns. What organizations need instead is a dependable, automated way to replicate data to a secure, immutable location - without introducing complexity or reliance on external cloud providers.

This joint solution from NetApp StorageGRID and Spectra Logic provides an alternative: an automated backup process that replicates data directly to on-premises, ransomware-resistant, and Amazon S3-compatible tape

storage. The result is a simple, cost-effective, and secure way to ensure long-term data protection without cloud lock-in, unpredictable bills, or complex restore workflows. Executives can count on lower costs, stronger security, and peace of mind that their organization's data will remain protected and accessible for years to come.The solution introduces a straightforward, replication-based backup strategy using NetApp CloudMirror — a native StorageGRID feature that mirrors data from designated buckets to an alternate Amazon S3-compatible target.

When paired with Spectra Logic Object-Based Tape, this integration delivers on-premises, air-gapped protection with built-in immutability, zero egress fees, and enhanced ransomware resilience. The result is a predictable, automated backup workflow designed to support long-term data integrity and compliance — while maintaining simplicity and control.

Seamless, Amazon S3-Compatible Backup

Spectra Logic and NetApp have partnered to simplify long-term data protection by integrating Spectra Logic Object-Based Tape into NetApp StorageGRID.

The solution creates an Amazon S3-compatible backup architecture that allows StorageGRID to automatically replicate specified objects to a low-cost, secure tape tier. Using Spectra Object-Base Tape, organizations gain a scalable, Amazon Glacier-compatible solution that enhances data protection without relying on public cloud cold storage. Since Spectra Object-Based Tape is fully compatible with the Amazon S3 Glacier interface, integration into existing data protection workflows is fast and seamless — without the cost or latency of cloud retrievals.

How It Works:

- StorageGRID ingests object data from users or enterprise applications.
- CloudMirror detects new objects and replicates them to a target bucket on Spectra Object-Based Tape.
- Data Lifecycle Policies move objects from disk to tape for secure, long-term storage according to user-defined policies.
- Data Retrieval via Amazon S3-compatible APIs can be manually restored at any time.

Data Remains Accessible:

CloudMirror is designed for "push-and-forget" backup — StorageGRID stops tracking replicated objects once they are sent. However, data stored on Spectra Object-Based Tape remains accessible through standard Amazon S3-compatible tools;

- Data can be retrieved from any Amazon S3-compatible bucket
- Restore targets can be configured to prevent re-replication
- Lifecycle rules assist in managing retention and cleanup

For use cases requiring integrated, policy-based restore workflows, refer to the companion solution brief: StorageGRID Cloud Storage Pool → Spectra Object-Based Tape.

KEY BENEFITS

- **Seamless integration:** Compatible with the Amazon S3 Glacier interface and accessible through StorageGRID CloudMirror policies, the solution supports full interoperability with S3-compatible tools and applications.

- **Enhanced data protection:** Spectra Object-Based Tape offers air-gapped security, immutability with Object Lock, and optional off-site replication, providing multiple layers of protection against ransomware or accidental deletion.

- **Predictable costs:** Eliminate public cloud egress fees and avoid unpredictable storage costs by replicating backup data to on-premises tape infrastructure.

- **Disaster-recovery ready:** Backups stored in Spectra Object-Based Tape can be recovered through automated CloudMirror replication, eliminating complex restore workflows and internet bandwidth constraints.

- **Energy efficient:** Tape storage requires less power than active disk systems, supporting environmental sustainability objectives.

Why It Matters:

Traditional backup solutions often come with vendor lock-in and cloud egress costs.

This Spectra + NetApp solution leverages industry-standard APIs and storage interfaces for effortless, low-touch backups to tape, delivering long-term durability, ransomware protection, and cloud-like simplicity on premises.

While Amazon S3 Glacier is a popular choice for cold storage, it can lead to access delays and egress fees. The Spectra Object-Based Tape solution provides a faster, cost-effective alternative for immutable backups, without locking data in the cloud.

"A simple, automated way to protect object data with immutable, ransomware-resistant backups – without cloud lock-in or unpredictable costs."
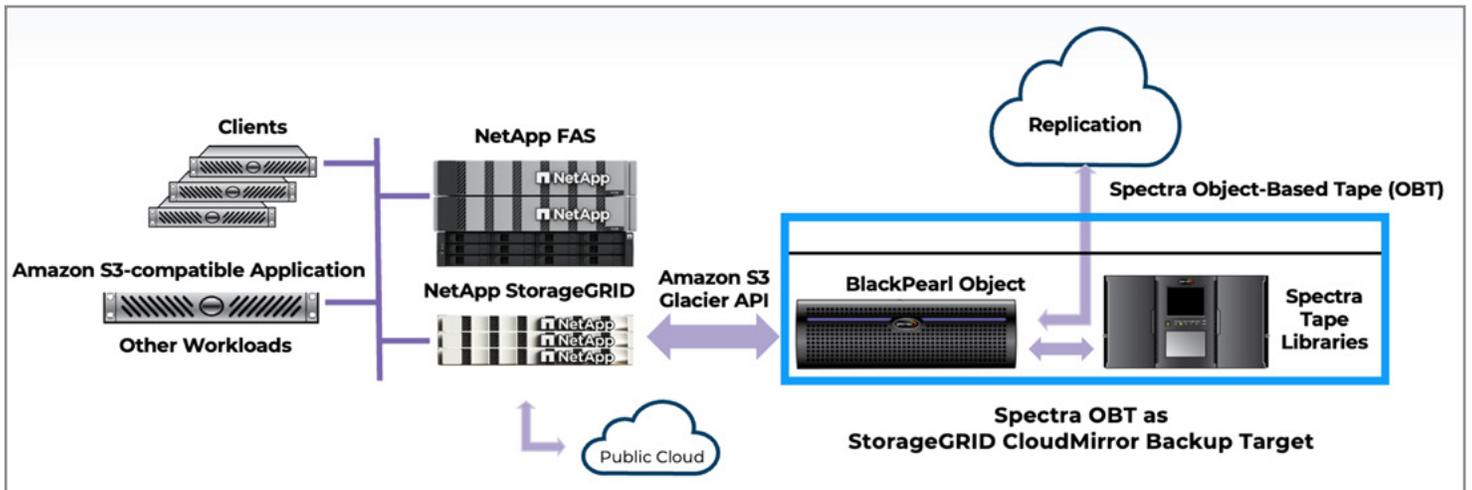
Figure 1) Workflow: NetApp StorageGRID & CloudMirror to Spectra Object-Based Tape

About Spectra Logic

Spectra Logic develops data management software and storage solutions for data at scale that deliver the advantages of an on-premises, nearline storage architecture. Dedicated to innovating data protection solutions for more than 40 years, Spectra helps preserve, protect, and defend data with a broad portfolio that enables organizations to harness the power of their data, whether on-premises, in a single cloud, across multiple clouds, or in all locations at once. www.spectralogic.com

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