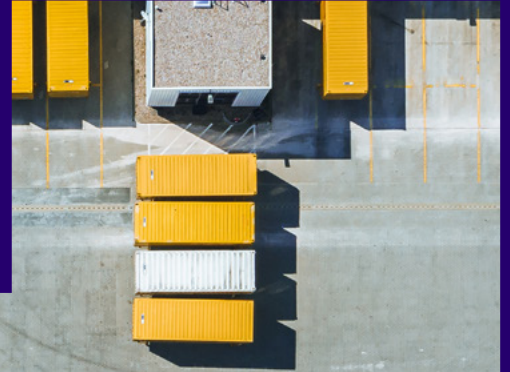**NetApp**

SPECTRA LOGIC S3 OBJECT-BASED TAPE TIER FOR STORAGEGRID

SPECTRA

Enhance S3 Glacier performance and security, eliminate egress fees with On-Prem Glacier

Not all data is the same

On average, over 80% of data in all enterprises is cold and hasn't been touched in over a year. So why let it consume the same resources as hot or active data, causing high storage costs and slowing backups? Optimizing the management of your data based on inherently different characteristics is a better answer. Cold data is infrequently used or accessed but needs to be retained for archival, historical, or regulatory purposes. Cold data would be better served on a low-cost object store rather than a high-performance SSD, thus reclaiming primary storage infrastructure.

To help organizations optimize their hybrid-cloud strategy, NetApp and Spectra Logic have partnered to offer the most cost-effective, secure, and efficient solution for cold data storage, a solution that's compatible with Standard S3 and Amazon S3 Glacier. You can easily create a flexible on-premises storage infrastructure to store large amounts

of data for extended periods of time. Inactive data is tiered or mirrored to low-cost object-based tape storage while preserving data efficiencies, resulting in substantial TCO savings.

On-premises object storage

NetApp® StorageGRID® object-based storage is an enterprise-grade, on-premises solution that supports the native Amazon Simple Storage Service (S3) API. StorageGRID is software defined, which means that you can run it on different platforms—bare metal, VMware-based environments, or NetApp's purpose-built appliances—and you can mix platforms within a grid. StorageGRID offers massive S3 object storage and dynamic data management, enabling you to run next-generation workflows on your premises alongside your public cloud. The solution's industry-leading data management policy engine helps you optimize performance and durability and adhere to data locality requirements. StorageGRID is extremely scalable,

supporting low-touch, nondisruptive expansions, and can store billions of objects. In a single namespace, StorageGRID can scale up to 16 data centers worldwide.

Spectra On-Prem Glacier solutions combine the benefits of Amazon S3 Glacier with the performance, security, and cost efficiency of on-premises object storage. StorageGRID cloud integration with 100% Amazon S3 Glacier compatibility enables Spectra On-Prem Glacier to be seamlessly inserted into existing workflows, including full interoperability with modern data protection solutions and all S3-compatible applications. This hybrid cloud implementation delivers high performance and ransomware resilience, with optional replication to the public cloud for off-site disaster recovery.

Cold data optimization

StorageGRID, combined with Spectra On-Prem Glacier solutions, enables cost-effective hybrid cloud storage options for managing and optimizing cold data storage and long-term data retention. Instead of relying exclusively on the public cloud, organizations can minimize cloud data retrieval, reducing or eliminating expensive egress fees, while scaling to near-limitless capacity with less complexity and at considerable cost savings.

Data security

Spectra On-Prem Glacier solutions provide secure object-based tape storage, protecting data from internal and external threats with Object Lock for data immutability and offline air-gapped copies of data. Multitenancy ensures that

Extend StorageGRID object storage with the Spectra On-Prem Glacier object-based tape tier.

KEY BENEFITS

- Deploy a flexible and cost-effective object storage architecture with near-limitless, future-proofed scalability

- Provide superior security and ransomware protection with air-gapped data protection

- Avoid egress fees by minimizing or eliminating cloud-based cold data access

- Reduce disaster recovery time by optimizing cold data retrieval speed

- Minimize energy requirements to maximize environmental sustainability

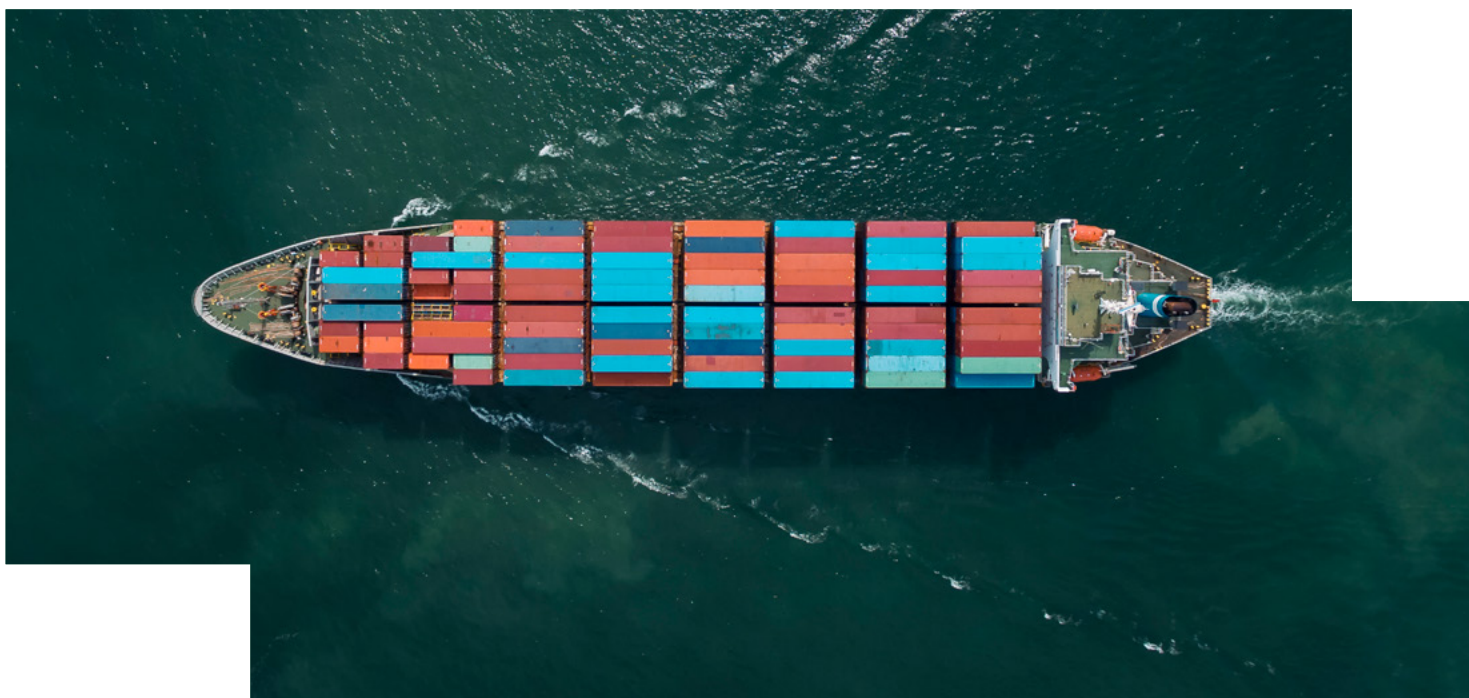- Automate asynchronous replication of objects across multiple sites and clouds

data is isolated with restricted visibility, while encryption at rest and in flight eliminates unintended data exposure.

Flexible data access

StorageGRID with a Spectra On-Prem Glacier solution provides a fast and effective way to access both active and archived data. Frequently accessed data is easily accessible on high-performance tiers, allowing quick retrieval. Archived data can also be accessed when necessary, with slightly longer wait times. Seamless access to data ensures a smooth workflow and enables organizations to optimize resources and achieve their goals efficiently.
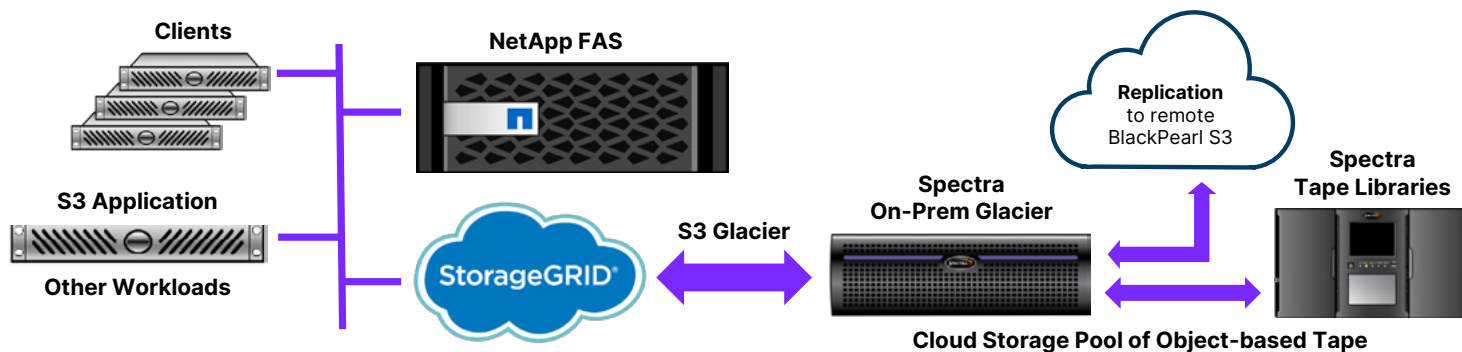
Figure 1) Object-based tape as an on-premises Cloud Storage Pool.

Glacier Storage Class	Amazon S3 Glacier	Spectra On-Prem Glacier
Instant Retrieval	Milliseconds	Milliseconds
Flexible Retrieval	Minutes to Hours	Seconds
Deep Archive	Hours to Days	Minutes

Table 1) Cloud-based Amazon S3 Glacier versus Spectra On-Prem Glacier, data access times.

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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About NetApp

NetApp is the intelligent data infrastructure company combining unified data storage, integrated data services, and CloudOps solutions to turn a world of disruption into opportunity for every customer. NetApp creates silo-free infrastructure, then harnesses observability and AI, to enable the best data management. As the only enterprise-grade storage service natively embedded in the world's biggest clouds, our data storage delivers seamless flexibility and our data services create a data advantage through superior cyber-resilience, governance, and applications agility. Our CloudOps solutions provide continuous optimization of performance and efficiency through observability and AI. No matter the data type, workload or environment, transform your data infrastructure to realize your business possibilities with NetApp. www.netapp.com