Object-Based Tape

Spectra Solutions for Hybrid Cloud Amazon S3 Disk & Tape Storage

SPECTRA®

Spectra Object-Based Tape solutions provide organizations with a range of options for cost-effective data storage. As organizations consider how they utilize the cloud for backup and archive, a hybrid strategy is emerging as the most cost-effective, secure, and efficient solution. Compatible with Amazon S3 Standard and Amazon S3 Glacier, you can easily create a secure on-premises storage infrastructure.
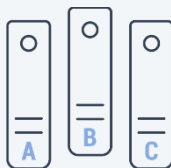
Cloud Integration

- Compatible with Amazon S3 & Amazon S3 Glacier
- Global Namespace enables you to provide access to any data, by any user, from any location
- Multi-cloud data management facilitates easy data migrations

Security

- Immutable storage and offsite air gap to protect your data against ransomware and data loss
- Encrypts data at rest and in flight, eliminating unintended access or exposure
- Multi-Tenancy isolates workloads and data to provide secure access on the same storage

Lifecycle Management

- Policy-based data optimization: locations, redundancy, retention, expiration, synchronization
- Automated data placement stores data on faster access tiers for rapid RTO/RPO and then can move data to lower-cost tiers for more cost-effective long-term retention

On-Premise Cloud Storage

- Object-based disk provides instant retrieval of infrequently accessed data with the flexibility of on-premises storage
- Object-based tape provides a deep archive tier of storage for long-term data retention and expands to multiple exabytes of storage

Spectra Object-Based Tape Solution Advantages

Cost Analysis	Amazon S3 Glacier	Spectra Object-Based Tape
Acquisition Cost	Low	Medium
Retrieval Fees (egress)	High	None
Bandwidth Cost	Yes	None
Unexpected Costs	Yes	None

Storage Class	Amazon S3 Glacier	Spectra Object-Based Tape
Instant Retrieval	Milliseconds	Milliseconds
Flexible Retrieval	Minutes to Hours	Minutes
Deep Archive	Hours to Days	Minutes

Object-Based Tape Features & Benefits

The Spectra Object-Based Tape solution architecture was built from the ground up to maximize the business value of cold data for customers. The Spectra team recognized early on that with the advent of the hybrid cloud data center, a new storage architecture was required to take full advantage of what on-premises tape can do for customer applications while managing storage resources and where their data should reside for optimal benefit and value.

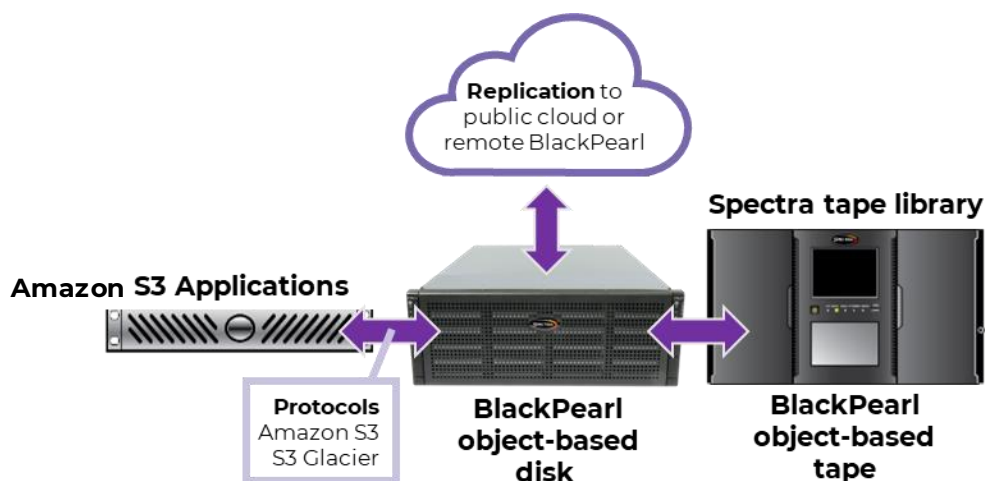|	
Preserve	• Hybrid cloud architecture makes it easy to manage and migrate workloads between on-premises and cloud environments • Select the most cost-effective archive tier by optimizing location, access time, cost and power consumption • Maximize data access and availability with replication across multiple sites or devices, and an active/standby node configuration.
Protect	• Ensure your data's integrity and resilience against ransomware with immutability by object lock and physical air-gaping. • Safeguard your data from unauthorized access, accidental deletions and cyber threats with multi-factor authentication, self-encrypting disks and native tape drive encryption.
Defend	• Achieve significant cost savings and lower TCO when compared to storing data at scale in the public cloud, with more options while eliminating concerns about surprise fees.
at Scale	• Realize efficient scale-up expansion by combining high performance with affordability. • Easily accommodate usable flash and disk storage into the petabytes and tape storage into the exabytes.

Replication to public cloud or remote BlackPearl

Spectra tape library

Amazon S3 Applications

Protocols
Amazon S3
S3 Glacier

BlackPearl object-based disk

BlackPearl object-based tape

About Spectra Logic Corporation

www.spectralogic.com