Spectra Logic Introduces Spectra Cube Tape Library for Cloud Deployments

New cloud-optimized library brings the highest versatility, ease of use and cost-effectiveness to on-prem, hybrid cloud and IaaS environments

BOULDER, Colo. April 9, 2024 – Spectra Logic®, a global leader in data management and data storage solutions, today announced the addition of the Spectra Cube™ tape library to the company's family of enterprise tape storage solutions. Designed for clouds and optimized for ease of use, the new Spectra Cube library can be quickly deployed, dynamically scaled and easily serviced without tools or downtime.

Management of the new system is provided by newly introduced LumOS library management software, an intuitive and feature-rich interface that allows secure local and remote management and monitoring, and enables an optional assisted self-maintenance model for rapid component replacement without the need for service personnel.

The Spectra Cube library fully supports modern backup and archive applications through seamless integration with Spectra BlackPearl® file and object storage systems to create highly cost-effective on-premises or hybrid cloud object-based tape tiers. Amazon S3 and Amazon S3 Glacier API access is fully supported. It is also an ideal platform for the delivery of storage services by managed service providers or cloud service providers.

Additionally, more than 30 custom integrations with media asset and production asset managers are available along with validated solutions for integration with object storage environments such as NetApp StorageGRID.

Managing capital budgets while responding to often unpredictable data growth patterns is easy with the Spectra Cube capacity-on-demand expansion model. Additional tape slots can be dynamically enabled via software while additional tape drives can be added to scale performance, all without downtime, tools or service calls. Spectra Cube environmental costs for power and cooling are substantially lower than object-based disk or flash systems while providing a highly efficient storage density of more than 2.5 petabytes (PB) of data capacity per square foot of floor space.

An optional loft enclosure can accommodate rackmount devices, including Spectra BlackPearl storage, industry-standard servers and more, simplifying connectivity and further increasing space efficiency.

The Spectra Cube library offers up to 30 PB of native capacity, with a maximum compressed capacity of 75 PB. Up to 16 full-height or 30 half-height LTO tape drives may be intermixed, delivering a maximum native throughput of 32 TB per hour. Currently supported LTO technology generations include LTO-6, LTO-7, LTO-8 and LTO-9, with the ability to support future LTO technology generations as they become available. For shared or multi-tenant environments, the library supports up to 16 partitions.

Leveraging a combination of proven Spectra high-performance transporter technology and TeraPack® magazines, the Spectra Cube library offers the highest tape cartridge exchange performance of any library in its class. The new library also features a convenient front-panel TeraPack Access Port, enabling

the selective import or ejection of ten tape cartridges in a single non-disruptive operation, simplifying and reducing tape handling tasks.

Supported drive interfaces include Fibre Channel and SAS, while optional Ethernet-to-SAS bridges eliminate the need for dedicated storage area network connections, significantly reducing cost and complexity.

"As cloud data continues to grow rapidly, the escalating costs of public cloud storage have forced a reckoning, leading to significant interest in moving data to more economical locations including on-prem clouds and hybrid clouds," said Matt Ninesling, senior director of tape portfolio management at Spectra Logic. "Compared to typical public cloud options, Spectra Cube solutions can cut the costs of cold storage by half or more, while providing better data control and protection from existential threats like ransomware."

Lifetime-Guaranteed Spectra Certified Media
To ensure the utmost reliability and extend the longevity of tape media, Spectra recommends the use of lifetime-guaranteed Spectra Certified Media with all its libraries.

When using Spectra Certified Media, Spectra libraries[1] actively monitor tape health and usage, recording more than 40 metrics for each tape during its lifespan to aid in predicting, assessing and minimizing errors. Additionally, regular data integrity verification checks are automatically conducted to detect media errors, reducing the risk of data corruption or loss.

Every Spectra Certified Media cartridge is pre-cleaned using a patented CarbideClean process to ensure media is debris-free, reducing errors and extending tape head life. Certified Media cartridges also come with pre-applied standard or custom barcodes for efficient tracking.

Spectra Certified LTO-9 cartridges are pre-calibrated for immediate use, optimizing data placement and saving up to 30 minutes per cartridge of initialization time.

For convenience, Certified Media cartridges may be delivered pre-packed into TeraPack magazines for easy bulk loading or offsite storage, with optional dust covers for added protection during storage.

Where to See a Demonstration
Spectra will demonstrate the new Spectra Cube library at the 2024 NAB Show, to be held from April 14-17 at the Las Vegas Convention Center, Las Vegas, NV, and at ISC High Performance 2024, to be held from May 13-15 at the Congress Center, Hamburg, Germany.

Specifications, Pricing & Availability
Complete specifications for the Spectra Cube library are available at www.spectralogic.com/spectra-cube. Spectra Cube libraries are available to order now with a 30-day delivery lead time.

Configuration and pricing information is available upon request. For inquiries, please visit www.spectralogic.com/contact.

About Spectra Logic
Spectra Logic modernizes IT infrastructures to preserve, protect and defend data, from days to decades, whether on-premises, in a single cloud, across multiple clouds or in all locations at once. Our cost-effective solutions help organizations efficiently manage, migrate and store long-term data, from terabytes to exabytes, with features that make it ransomware resilient. To learn more, visit

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