CASE STUDY

World renowned broadcaster and Spectra preserve vast HSM archive of award winning video and photography content for future generations.

> **"** High density was our biggest requirement for the new digital archive solution, as our group was under pressure to maximize the limited square footage in our data center. The T950 lets us store large amounts of content – up to 350,000 hours of HD video – or more than eight petabytes of data – to substantially grow our digital video archive in the industry's smallest footprint. **"**

VP and CTO for this global media company

5-Frame Spectra T950

Customer Requirements

This enterprise customer employs dozens of photographers and videographers, which daily generates approximately 10TB of content that is archived to tape. While the process eliminates the need for backup, it does require an exceptional archive platform that is highly reliable to protect valuable data assets for future programming needs.

Their Big Data environment will grow exponentially over the years, as video and photos are stored indefinitely. They wanted a scalable, high density solution that would fit in their limited data center space.

Finally, this company's media infrastructure includes hundreds of thousands of tape mounts and movements daily, so high availability and uptime were critical. The company needed a superior support offering to maintain 24x7 operations in its tape archive.

The Solution

This provider's IT manager selected a five-frame Spectra® T950 with LTO-4 and LTO-5 drives and more than 6,000 tape slots to store all of their high-resolution digital content as it is migrated from primary disk using SGI's DMF software. The T950 archive will also store a backup copy of the low-resolution proxy data on tape for long-term access.

Their new Spectra solution also leverages Media Lifecycle Management (MLM) software and Auto Drive Clean, two features of Spectra BlueScale software. With these features, the library self-manages drive cleaning and reports tape health to guarantee continuous archiving operations and to eliminate media-related errors.

Results

Since the implementation of the T950 digital tape archive, the broadcast division of this media giant has:

- Improved uptime with proactive monitoring to allow scheduled for maintenance

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- Tripled performance speeds with LTO-4
- Upgraded and added LTO-5
- Dramatically reduced data center floor space requirement

Preserving this group's digital history indefinitely is business critical, and the Spectra T950 tape library is the optimal platform to protect assets for long term archive usage. Optimized for archiving and protecting content for the long-term, Spectra tape libraries offer the archive re-liability, durability and portability required by media and entertainment institutions seeking long-term, digital preservation storage platforms. Spectra tape librar-ies also provide the scalability necessary to meet long-term growth requirements, hardware redundancy and customer replaceable parts to ensure assets are available 100% of the time.

The Spectra T950 consumes 5 racks of floorspace and costs $264 per terabyte archived, which is magnitudes less than a disk system –not including disk's much higher power and cooling costs.

Environment Snapshot

- Five-frame Spectra® T950 tape library with seven LTO-4 drives and ten LTO-5 drives and media
- SGI's DMF software using one partition with 12 drives and 3690 slots
- CommVault's Simpana software using the second partition with 5 drives and 80 slots
- Spectra Media Lifecycle Management
- Spectra Auto Drive Clean

Why Spectra?

- High capacity in the industry's smallest footprint
- Proactive health monitoring
- High performance
- High reliability

> " BlueScale's additional management and partition flexibilities are a huge benefit, and the included Auto Drive Clean feature has been invaluable, as our current software does not handle cleaning duties... and Spectra's Media Lifecycle Management helps us identify aging media and hot spots. "

Media Manager of Infrastructure Systems

Customer media network environment

IT Data

CommVault Simpana Backup Server

Backup Partition

DFM Server

DMF Partition

Five-Frame T950 Tape Library

Production Data