Quantum

Quantum StorNext Helps Castilla–La Mancha Media Store, Enrich, Archive, and Manage Fast-Growing Volumes of Audiovisual Content

Castilla–La Mancha Media (CMM) is a public broadcasting service that delivers engaging information and entertainment to citizens in its Spanish region and beyond. The organization needed to rearchitect its growing content archive to ensure continued public access to historical and entertaining audiovisual material. With help from Datos Media Technologies, CMM implemented Quantum storage solutions to build an end-to-end environment for storing, enriching, archiving, and managing unstructured video.

For 20 years, CMM has been producing a wide range of video content for the citizens of Castilla–La Mancha. That content is broadcast across Spain and to other countries through digital terrestrial television and through internet platforms.

In those two decades, the organization's content archive has grown considerably. It contains not only news and depictions of historical events from the region but also an array of entertainment programming. Preserving that material and making it available to citizens are essential for supporting and protecting the region's cultural identity.

cmm
CASTILLA-LA MANCHA MEDIA

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Jesús Sanchez
Technical Director
Castilla–La Mancha Media

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StorNext

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> Project Manager, Datos Media Technologies

To help ensure the continued availability of archived content while also keeping up with evolving production requirements, the CMM team needed to update its storage environment. "The evolution of formats and the passage of time made an update of the different filing system components crucial to continue offering a good public service," says Jesús Sanchez, technical director of CMM.

In particular, CMM needed a scalable storage platform that could handle fast-growing volumes of high-resolution content. Performance and flexibility were also top priorities: The CMM technology team wanted to ensure that users could access content from a variety of systems and have a responsive experience. At the same time, the archive had to help maintain availability and data protection. Any new storage platform also had to integrate with the existing media asset management (MAM) system.

Building An End-To-End Storage Environment with Quantum

Working with Datos Media Technologies, which serves the broadcast industry, the CMM team decided to implement an end-to-end storage environment built on Quantum solutions. At the heart of the new solutions, the Quantum StorNext file system combines a single shared storage environment with efficient data lifecycle management. StorNext enables CMM team members to collaborate easily, even as workflows span primary storage, extended online storage, multi-cloud storage, and data tape–based archives.

The solutions include Quantum Xcellis Workflow Director, which enables high-speed shared access to stored content, and Quantum QXS-series hybrid arrays, which provide high-performance, low-latency storage. A Quantum Scalar i6000 data tape library offers cost-effective, scalable

capacity and data protection for the archived material.

The Quantum environment integrated with CMM's existing Tedial cataloging and downloading system, which has been certified for StorNext 7. That integration enabled the organization to implement the new end-to-end environment without interrupting workflows.

"Taking into account the needs to update the current Castilla–La Mancha Media file system, we opted for the integration of a system from one company, Quantum," says Juan Francisco Navarro, Datos Media project manager. "With this installation, we have provided not only more storage but also high availability of all resources."

Integration with the existing MAM system helped CMM and Datos complete the Quantum implementation seamlessly. "We updated the archive using Quantum solutions while maintaining the greatest security and without interrupting production workflows," explains Sanchez at CMM.

Enabling High-Performance Access to Content

The StorNext-powered solution provides the high-performance, shared access that CMM users need to retrieve and work with high-resolution content, including broadcast-level HD content. In addition, the QXS-series array is designed to deliver high levels of sequential I/O performance and extremely low latency while supporting large storage volumes.

StorNext also gives administrators the flexibility to match system performance with workflow demands. Flexible connectivity options allow the CMM team to select from multiple networking and storage technologies, including Fibre Channel and high-speed Ethernet. Quality-of-service and bandwidth management capabilities enable administrators to ensure certain performance levels for particular clients.

Simplifying Lifecycle Management

With an end-to-end environment built on StorNext, the CMM team does not have to spend excessive time moving content from one storage system to another. Lifecycle management capabilities move files automatically from primary storage to the tape archive or cloud storage based on policies set by the CMM team. CMM can continue expanding its large archive of regional content without adding manual, time-consuming work.

Preserving Valuable Regional Content

The Quantum solution helps ensure that stored and archived content is protected from potential security issues and continuously available to video production teams. To safeguard content from ransomware attacks or other intrusions, the Scalar tape library offers Active Vault, which manages media between a backup partition and an air-gapped vaulted partition. To keep content available, Scalar iLayer™ proactive diagnostics software

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> Regional Sales Manager, Quantum

constantly monitors the tape library for potential issues. Extended Data Life Management (EDLM) capabilities help make sure files are protected and readable for years to come.

Gaining Scalability For The Future

As CMM continues to produce more content—and generates larger, higher-resolution files—the team can expand its Quantum-based production storage and archive easily and cost-effectively, without having to rip and replace systems. CMM can dynamically scale the QXS-series arrays by adding modules and disks. And it can expand the Scalar i6000 tape archive, scaling up to more than 12,000 slots and 192 drives, which would provide a tremendous amount of archive capacity. Sobirei. "We really want to minimize the time we spend on backup infrastructure. With ActiveScale, we can focus on other things."

"CMM and Datos have created a high-performance, highly scalable workflow to support the main regional television stations in Spain and national broadcasters across Europe," said Sebastian Wainberg, regional sales manager at Quantum. "By using multiple solutions within the Quantum StorNext platform, they have built a truly end-to-end solution that can store, enrich, archive, and manage massive amounts of unstructured video. With Quantum, CMM has laid the foundation for enormous growth and scalability."

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