



ATTO

Bridging the Gap: ATTO XstreamCORE 8200 Powers Boston 25 WFXT's Media Workflow

Boston 25 WFXT tackles media management using Avid, nearline, and LTO tape storage, integrating them with an ATTO XstreamCORE 8200 for efficient data handling. The bridge plays a critical role in ensuring smooth data flow between storage tiers, preventing operational delays during the vast data transitions from mobile, surveillance, and web sources.

ATTO XstreamCORE Intelligent Bridges

The Challenge

Boston 25 WFXT, a bustling news station, faced a common challenge for media environments: efficiently managing and retrieving media from a diverse array of disparate storage systems. This included high-performance storage for active projects, nearline storage for less frequently accessed content, and long-term archival storage on LTO tapes.

The station's workflow involves a complex integration of hardware and software, with Avid systems dominating the front end for content creation and production storage. Files are stored on nearline storage before being transferred to deep archive.

This setup utilizes the Telestream Kumulate™ content management system (CMS) to manage data movement from production to archival and back. Given this setup, a solution was needed to connect the nearline storage and Spectra Logic tape libraries to the CMS.

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Key Features:

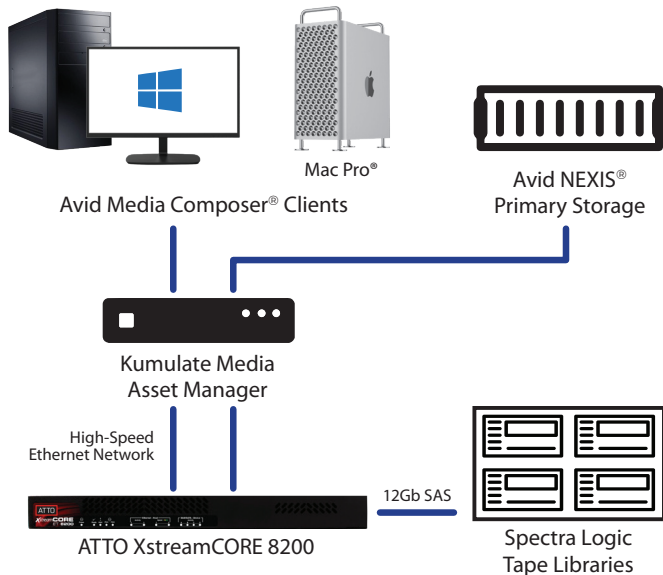
- **High-Speed Data Transfer:** XstreamCORE's capacity to manage high-speed data ensures that content retrieval is swift, even from LTO tapes with thousands of jobs, reducing wait times significantly.
- **Nearline Storage Efficiency:** Items "parked" in the nearline storage can be recalled almost instantly, crucial for accessing content needed for breaking news.
- **Multimedia Data Scalability:** ATTO XstreamCORE 8200 scales with the influx of data from mobile, surveillance, and web, ensuring efficient management.

The Solution

To keep everything running smoothly and reliably with minimum intervention by busy engineers, an ATTO XstreamCORE® 8200 intelligent bridge was added to connect all nearline and backend storage to the Kumulate system. The XstreamCORE 8200 **intelligently bridges SAS block devices** such as JBODs or tape libraries to **iSER or iSCSI networks** over 40 Gb Ethernet, which is essential for handling the high-density data transfers required to move content to and from nearline storage or LTO tapes.

Without this bridge, the station's ability to connect and manage these storage components would be severely compromised, leading to significant operational delays. The integration of the ATTO XstreamCORE 8200 has proven **vital for managing the vast influx of data** from mobile, surveillance, and web sources, allowing seamless transitions between different storage tiers for quick access and efficient archiving.

WFXT Media Workflow Topology



ATTO XstreamCORE ET 8200 SKU: XCET-8200-002
Tape Only SKU: XCET-8200-TP2



| | |
|---------------------------------|---------------------------|
| Input Connectors | (2) 40Gb Ethernet |
| Output Connectors | (4) 12Gb mini-SAS HD (x4) |
| Architecture Latency | < 2 microseconds |
| SAS/SATA disks supported | Up to 960 per controller* |

*For qualified customers

| | |
|------------------------------|--------------|
| Tape Drive Support | Yes |
| Optical Drive Support | Yes |
| Form Factor | 1U rackmount |
| Power Supplies | 2 |
| Power Supply Type | Hot Swap |

Outcomes

- **Fast File Retrieval:** The 40GbE connection of the ATTO XstreamCORE 8200 significantly reduces retrieval times for video files stored on the nearline storage (Swarm) and LTO tapes.
- **Streamlined Workflow:** The bridge seamlessly integrates with the existing Telestream Kumulate middleware, ensuring a smooth data flow between Avid editing systems and the archive.
- **Improved Efficiency:** By eliminating bottlenecks, XstreamCORE helps WFXT staff retrieve media faster, which is crucial in a fast-paced news environment.
- **Reliable Operation:** XstreamCORE provides a stable and dependable connection, ensuring data integrity and preventing data loss.
- **Simplified Management:** XstreamCORE features a user-friendly web interface that allows for easy configuration and monitoring.

“...I was able to start transferring data almost within 20 minutes of taking it out of the box. It was a win.”

Michael Sturgeon, Chief Engineer,
WFXT-TV | CMG

For more on ATTO XstreamCORE:
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