

SOLUTION BRIEF

ATTO

Key Benefits

Intelligent Video Retention and Management - COZAINT askALICE (powered by MARCIA) automatically enforces retention rules, manages video aging, and allows instant search and export based on metadata, time-range, or event tags – ensuring efficient access to critical surveillance data.

Location Independent, Secure Tape Access - ATTO XstreamCORE 8100T enables centralized LTO tape library deployment accessible by multiple VMS servers over a standard Ethernet interface, with remote management capabilities – reducing cost and complexity.

Reduced Hardware Requirements and IT Overhead - Minimize the need for expensive hard disk-based video storage hardware and tape servers, supporting seamless expansion of askALICE as storage demands grow.

Improved Visibility and Control Across the VMS Ecosystem - With an easy-to-deploy and tested architecture, organizations gain greater flexibility and control with unmatched reliability to streamline their entire video surveillance infrastructure.

Scalability for Long-Term Growth - The combined solution supports growing camera counts, retention periods, and data volumes without needing to overhaul critical infrastructure – making it ideal for organizations with evolving surveillance needs and multi-site environments.

Video Management on Scalable Tape Storage Made Easier with COZAINT askALICE™ and ATTO XstreamCORE® 8100T

Security and surveillance systems generate vast amounts of video data daily. In retail, transportation, public safety, enterprise, and government environments, retaining high-resolution video footage long-term while ensuring easy, reliable, access is both essential and challenging.

By combining COZAINT's askALICE video surveillance storage platform with ATTO's XstreamCORE intelligent bridge, organizations can efficiently capture, store, and manage video data. This scalable solution simplifies retention, reduces costs by more than 30%, and enhances compliance.

The Challenge

Modern surveillance systems generate massive volumes of video data from hundreds—or even thousands—of high-resolution IP cameras. While NVRs and disk arrays provide short-term storage, long-term retention becomes costly and complex. Many organizations rely on outdated infrastructure, expensive storage, or isolated systems that struggle to meet retention policies, compliance mandates, and incident response needs.

Tape storage remains the most secure, reliable, and cost-effective solution for long-term retention, preserving video, audio, and metadata. Unlike hard drives that require constant power to remain active, tape cartridges use no energy when not in use – dramatically reducing power and cooling demands. The longevity and reusability of tape media generates less electronic waste making it a sustainable choice for secure, scalable data retention.

However, previous attempts of integrating tape into IP-based surveillance workflows was often hindered by hardware limitations, network bottlenecks, fragmented storage strategies, and limited VMS software integration—leading to complicated workflows, delayed investigations, rising costs, and compliance risks.

Exploding Data Volumes

High-definition and multi-camera environments can produce terabytes of footage daily, quickly overwhelming disk-based storage systems

Limited Retention Flexibility

Balancing short-term performance with long-term requirements is complex, especially when video management and backup infrastructure aren't optimized for surveillance workflows

Manual, Error-Prone Inconsistent Backups

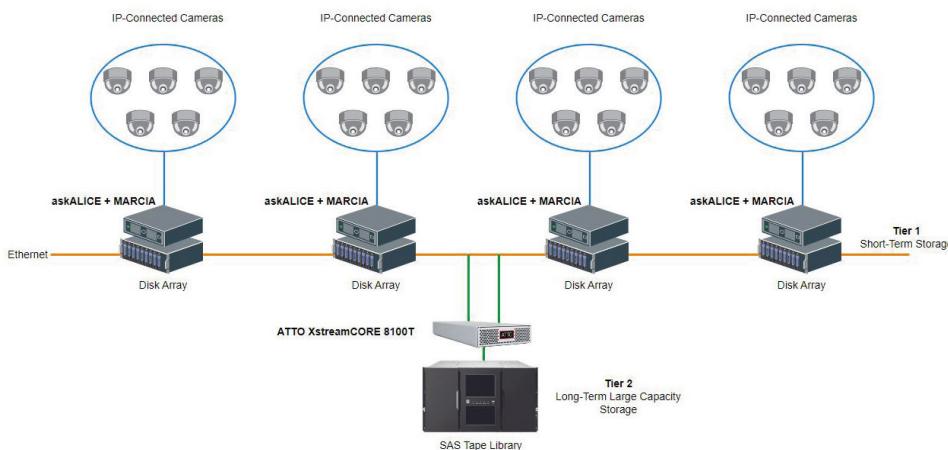
Tape is ideal for long-term storage, but direct-attached SAS-based tape limits access – leading to resource contention and manual intervention

Compliance & Audit Readiness

Regulatory practices often require video retention between 30 – 90 days or longer if needed. Missing footage due to failed backups or mismanaged storage can result in fines or legal consequences

cozaint®

Streamline management of video surveillance data from multiple servers across the network while ensuring access to data stored on long-term storage tier(s).



The Solution

The combination of COZAINT askALICE and ATTO XstreamCORE 8100T delivers a seamless, scalable approach to video surveillance storage and retention. COZAINT integrates storage hardware with popular video management software (VMS) systems. Cozaint's MARCIA™ is an intelligent middleware, enabling efficient ingestion, indexing, and management of surveillance footage. Video is first captured on a scalable tier-1 hard disk storage for immediate playback, while MARCIA continuously replicates unaltered footage to tier-2 LTO storage—eliminating manual intervention and ensuring seamless playback via the VMS timeline tool.

(Tier 1: High-performance, short-term storage [e.g., expensive RAID arrays] for immediate access. Tier 2: Cost-effective, long-term retention storage [e.g., LTO tape].)

With LTO storage on askALICE, you can enable a large capacity tier 2 for storage long-term video retention allowing you to save costs.

By extending SAS tape drive and library connectivity over Ethernet, the 8100T provides flexibility with physical placement of the tape library. Multiple VMS servers can share and access the tape library over the network, introducing architectural agility at scale. This enables centralized tape backups within IP-based physical security workflows, ensuring streamlined storage management while saving costs.

ATTO XstreamCORE boosts VMS storage flexibility with centralized access to large LTO storage - improving efficiency, costs, and data accessibility

With ATTO SpeedWrite™ and SpeedRead™, footage stored across multiple tier 1 disk arrays can be efficiently transferred to an LTO tape library over Ethernet, regardless of location. ATTO Advanced Data Streaming™ (ADS) ensures smooth data delivery, reducing errors and optimizing storage performance. COZAINT's MARCIA middleware provides operators with immediate access to extensive storage capacity, all while providing integrated VMS timeline operation for easy video playback.

XstreamCORE 8100T's intelligent bridging architecture accelerates data transfers, minimizes backup windows, and enhances overall VMS storage reliability.

"In the realm of video surveillance, where data volume surges and security demands intensify, the integration of ATTO XstreamCORE's network bridging with COZAINT askALICE's intelligent video management empowers organizations to exceed limitations. Together, they ensure every critical frame is captured, preserved, and readily accessible, safeguarding both assets and peace of mind."

– Jay Bartlett, CEO, COZAINT Corporation

Cozaint Corp.

Founded in 2018, Cozaint delivers intelligent surveillance solutions that empower organizations to harness the full potential of their physical security infrastructure. When you need leading edge physical security solutions, lean on Cozaint. Learn more at www.Cozaint.com

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ATTO Technology

For over 35 years, ATTO Technology has been a global leader across Enterprise IT, Datacenter, and Media & Entertainment markets, specializing in network and storage connectivity and infrastructure solutions for the most data-intensive, mission critical, and high-performance computing environments.

For more information, visit www.atto.com.

More Information

Cozaint: +1.760.975.8000

cozaint.com

info@cozaint.com

ATTO Sales: +1.716.691.1999

www.atto.com/scalable-video-surveillance-storage

www.atto.com/howtobuy