

## From the Intelligent Edge to Modern Archive: Redefining the S3 Experience with Ethernet-Native Long-Term Storage Infrastructure

**Preserve simplicity and operational efficiency while enabling automated data migration to low-cost deep archive storage – a combined solution from PoINT Software & Systems and ATTO Technology.**

Enterprises are all-in on S3 for backup, archive, and data lakes – but the economics and risk profile of keeping everything online no longer add up. Industry studies indicate that a majority of enterprise data is cold, yet a large portion of that still lives on high-cost disk or cloud object tiers instead of cost-effective archives. At the same time, ransomware campaigns increasingly target critical backup infrastructure – with a significant share of successful attacks now impacting repositories, sharply reducing the chances of clean recovery when it matters most.

PoINT Software & Systems and ATTO Technology have come together to address these challenges without breaking your S3-first strategy. PoINT Archival Gateway exposes a native S3 interface and data lifecycle management engine while ATTO XstreamCORE® bridges tape storage to modern ethernet environments so you can stream data to tape at high-speed over your existing network fabric. Applications and backup tools continue to talk to S3 while PoINT Archival Gateway automatically moves cold or compliance data to tape libraries, creating a physically air-gapped, ultra-low-cost tier that dramatically flattens long-term storage costs and restores a reliable last line of defense.

### Maximize Flexibility & Control with End to End Data Management

The integrated architecture of PoINT Archival Gateway and ATTO XstreamCORE delivers seamless S3-to-Tape tiering in Ethernet-driven environments. Building on the S3 workflow where applications and backup tools seamlessly interact with PoINT Archival Gateway using standard APIs as familiar endpoints, PoINT's policy engine applies intelligent rules to automatically tier objects between online storage and tape while maintaining S3-addressable metadata – even when payloads reside on LTO media.

Multiple PoINT Archival Gateway nodes connect via Ethernet to ATTO XstreamCORE which bridges direct attached SAS connections to a tape library over the network, transporting SCSI tape/media changer commands at line rate while ensuring streaming behavior and granular control.

- **Front End – S3 Clients and PoINT Archival Gateway**

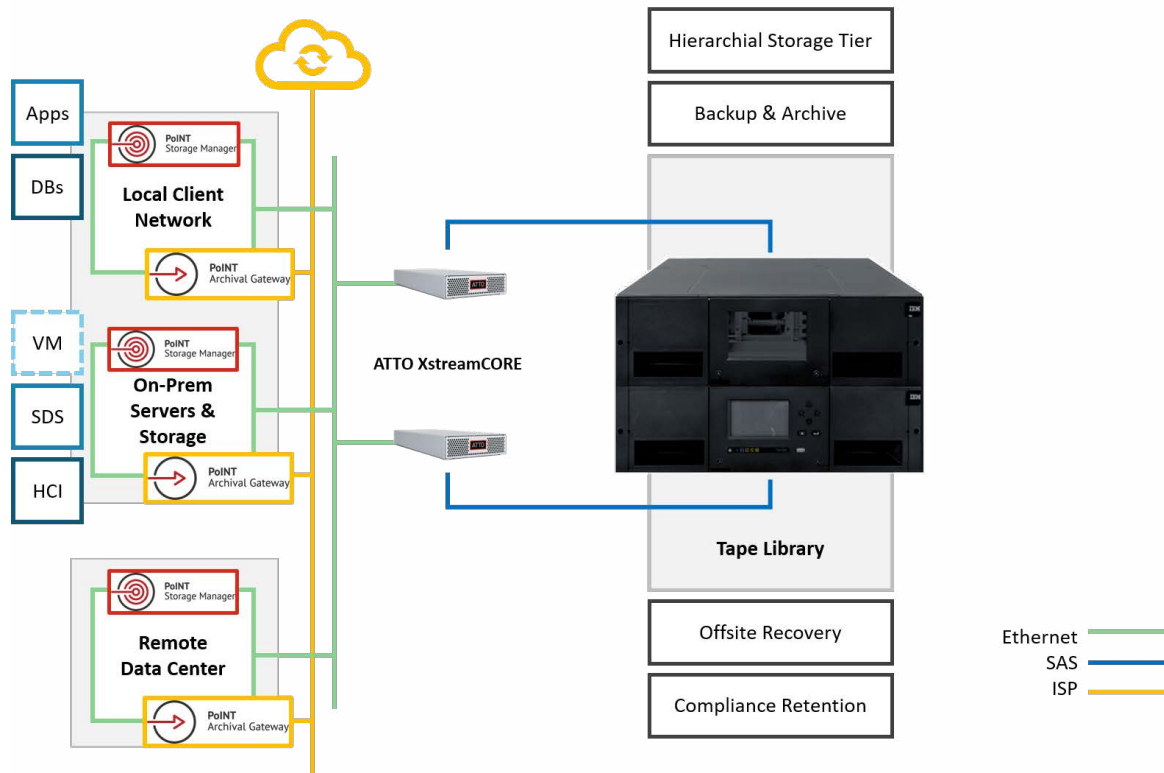
- » Write and read using standard S3 APIs against PoINT Archival Gateway
- » Appears as an S3-compatible endpoint or bucket, so no change in user workflows

- **Policy Engine – Object Lifecycle and Archive Control**

- » Determines which objects stay on online storage and which are archived to tape
- » Maintains metadata so that tape-resident objects remain addressable through S3 semantics

- **Tape Storage Layer – SAS Tape Libraries over Ethernet with ATTO**

- » ATTO XstreamCORE directly connects SAS-based tape drives to an existing Ethernet ecosystem
- » Clients/servers on the host network can read/write to tape in parallel even as S3 backups occur



## Break Free from The Runaway Cost of Cold Data Storage

Analysts and vendors have consistently reported that more than half of enterprise data is classified as cold or rarely accessed, yet 60-80% of that cold data still occupies expensive online tiers. This drives OPEX through the roof with cloud egress/API fees for rare retrievals, while CAPEX balloons from scaling high-endurance disk retention – turning storage into your fastest-growing line item as requirements grow. In other words, cold data is essentially bankrupting your storage budget.

By shifting cold S3 objects to LTO tape via Ethernet, you can now turn an escalating OPEX line to a predictable, low-cost footprint – without changing how your applications use S3 or how your teams function. Modern tape storage provides unmatched density and longevity for petabyte scale archives creating air gapped copies that are immune to cyberthreats as well as ensuring compliance friendliness in industries requiring long-term data retention.

When coupled with PoINT Archival Gateway software, you are now able to fulfill those long-term data management requirements that meets legal and corporate retention rules. By providing a highly scalable standard S3 REST API, PoINT Archival Gateway writes object data to the tape media without requiring cumbersome S3 Glacier commands – enabling unlimited parallelism and very high data transfer rates of more than 1PB per day.

ATTO XstreamCORE delivers a unique and transformative approach to integrating tape storage in Ethernet-first environments by breaking free from legacy server-bound architectures. Capable of delivering high throughput gains, ATTO XstreamCORE bridges collapse hybrid cloud-to-tape silos into one manageable tiering pipeline helping achieve maximum density while IT leaders align with growing retention mandates without forklift upgrades. This eliminates data silos and operational fragmentation that would otherwise risk strategic response in the event of an unplanned downtime to ensure streamlined recovery of data.

## Unlock a Simpler, Scalable, and Future-Ready Architecture

### S3 Simplicity with Deep Archive Economics

Applications, backup platforms, and data management tools interact with storage using familiar S3 APIs through PoINT Archival Gateway while cold data is automatically migrated to high-density LTO media, without changing how users or applications access data.

### Turn Cold Data from a Cost Center into Strategic Asset

By combining policy-driven lifecycle management, high-capacity tape infrastructure, and Ethernet-based integration, organizations can move cold S3 objects off expensive disk or cloud tiers. This helps reduce storage OPEX and long-term retention costs significantly while maintaining seamless access to archive data when needed.

### High-Throughput Data Ingest and Retrieval

Deliver sustained, enterprise-class performance with an optimized framework powered by ATTO XstreamCORE enabling efficient bulk archiving and large-scale restores over Ethernet alongside a distributed compute ecosystem that supports petabyte-scale data growth across fewer infrastructure layers, reducing operational overhead.

### Align Data Security Posture with Tomorrow's Workflows

Offering a future-ready path toward agile, resilient data infrastructures – this joint solution ensures efficient utilization of storage for long term data retention while delivering the tools needed to preserve and protect petabytes of data fueling next generation innovation and growth. It aligns data security, cyber resilience, and cost controls with where your workflows are headed – not where they were five years ago – so you can meet escalating retention, sovereignty, and AI training demands without blowing up your budget or your architecture.

By automatically tiering cold S3 objects to high-density tape storage via Ethernet, orchestrated by PoINT and accelerated by ATTO's intelligent

bridging technology, enterprises and data centers can keep more data for longer, at far lower cost, while staying ready to instantly promote the right data back into fast tiers as a new AI, compliance, and business use cases emerge – turning cold data from a liability into a strategic asset.

### About PoINT

Since 1994, PoINT Software & Systems GmbH has specialized in the development and distribution of software products for storage, management and archiving of data. PoINT solutions for storage & data management offer an easy and efficient integration of different storage technologies and systems in consideration of enterprise requirements. They allow optimized usage of storage systems and help to reduce costs and issues caused by data growth.

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### About ATTO Technology

For nearly 40 years ATTO Technology, Inc. has been a global leader specializing in network and storage connectivity and infrastructure solutions for the most data-intensive computing environments. ATTO works closely with its partners to create the world's best end-to-end data delivery, management and storage solutions.

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