



Introduction to LTO-10 Tape Technology

Breakthrough Archival Storage for the AI Era

A White Paper presented by [Spectra Logic](#)

Executive Summary

The rapid acceleration of data growth — driven by AI, advanced analytics, scientific research, and regulatory retention requirements — is reshaping both the economics and architecture of storage infrastructure. Organizations must scale capacity predictably while controlling power consumption, physical footprint, cost, cyber risk, and long-term operational complexity. In this environment, tape is not being reconsidered as a legacy medium, but as engineered infrastructure for enduring data preservation.

LTO-10, the tenth generation of the Linear Tape-Open (LTO) format, represents the most comprehensive advancement in tape technology to date. Beyond a generational increase in cartridge capacity, LTO-10 delivers a structural evolution across recording architecture, silicon intelligence, and media engineering — redefining density, reliability, performance, and longevity.

At the mechanical layer, LTO-10 introduces dynamic head alignment and enhanced dimensional stability controls that enable significantly higher areal density while maintaining precise track following. At the silicon layer, next-generation purpose-built ASICs increase internal bandwidth, processing capability, and extensibility, supporting higher sustained throughput and advanced data protection through hardware-accelerated compression, encryption, and error correction. At the media layer, high-strength substrates and advanced magnetic formulations enable native capacities up to 40 TB per cartridge while improving durability and environmental tolerance.

However, capacity innovation alone does not define exascale architecture. LTO-10's full value is realized within engineered ecosystems that incorporate high-density robotic automation, intelligent library management, disciplined media lifecycle governance, object-aware integration, and scalable fabric-based connectivity. Together, these architectural layers transform tape from a storage device into a strategic infrastructure tier capable of supporting multi-exabyte deployments.

Importantly, LTO-10 marks a convergence of capabilities once exclusive to proprietary enterprise tape systems. Technologies historically confined to closed platforms are now integral to the open LTO roadmap — delivered with faster innovation cycles, broader ecosystem participation, and superior economics. As legacy enterprise tape platforms approach end of life, LTO-10 provides a sustainable and forward-looking path for large-scale archive modernization.

For organizations designing architectures to support AI-era analytics, cyber-resilient data protection, and energy-conscious infrastructure, LTO-10 offers more than incremental improvement. It represents the maturation of tape as engineered infrastructure — scalable for decades, resilient against disruption, and aligned with the evolving demands of the modern data center.

As organizations design architectures for enduring data preservation, cyber resilience, and AI-era analytics, LTO-10 emerges as the industry's most scalable, energy-efficient, and future-ready storage foundation. In the AI era, the distinction between enterprise tape and LTO disappears because LTO-10 *is* enterprise tape, engineered for massive scale, unparalleled sustainability, and future growth. □

Table of Contents

Executive Summary.....	2
Introduction.....	3
The Evolution of LTO	4
LTO-10: The Generational Leap.....	6
Revolutionary Recording: Dynamic Head and Tape Path Alignment	6
Silicon Smarts: The LTO-10 ASICs.....	8
Magnetic Mastery: Advanced LTO-10 Tape Media	10
Architecting Tape for the Exascale Era	11
High-Density Robotic Automation	11
Intelligent Library Management	12
Media Governance and Lifecycle Discipline.....	13
Object-Based Tape and Cloud-Integrated Architectures.....	13
Fabric-Based Connectivity	14
Conclusion	15
About Spectra Logic.....	16

Introduction

Tape-based data storage has advanced dramatically since Remington Rand introduced the reel-to-reel UNISERVO tape system alongside the UNIVAC I computer in 1951¹. In the decades since, tape has remained in continuous service within data centers around the world. Yet today, it is being newly “discovered” by the latest generation of technologists tasked with solving some of the most demanding storage challenges of the modern era.

Few technologies are as well suited to addressing today’s converging pressures: exponential data growth, increasingly stringent sustainability goals, power and cooling constraints, rising storage costs, long-term data retention requirements, and an expanding landscape of cyber threats. Tape uniquely combines massive scalability, ultra-low energy consumption at rest, long media life, and strong cyber-resilience — making it an essential foundation for modern data preservation.

¹ SOURCE: <https://www.computerhistory.org/storageengine/tape-unit-developed-for-data-storage/>

Like all information technologies, tape has progressed over its entire history but in recent years, innovation has accelerated dramatically, culminating in the introduction of LTO-10, the tenth generation of the Linear Tape-Open (LTO) format. LTO-10 represents more than an incremental capacity increase; it marks a fundamental platform advancement across recording mechanics, silicon intelligence, and media technology. Collectively, these innovations position LTO-10 as one of the most significant generational leaps in the history of tape.



UNISERVO tape drive with UNIVAC I, 1951 (SOURCE: Wikipedia, the free encyclopedia)

This white paper provides an overview of the evolution of LTO technology, examining the key innovations introduced with LTO-10 and the benefits they deliver, exploring the evolving role of tape in modern IT infrastructures, and explaining how experts at Spectra Logic help organizations design and operate scalable, resilient data preservation environments.

The Evolution of LTO

The LTO tape format originated in 1998 when IBM®, Hewlett-Packard®, and Seagate®/Certance² formed the LTO Consortium to jointly develop an open-standard, multi-vendor tape technology. At the time, tape options were limited to a small number of proprietary technologies that were non-interchangeable, relatively expensive, sole-sourced, and unable to keep up with changing customer needs.

² Quantum Corporation acquired Certance LLC, in 2005

The LTO Consortium sought to strengthen the appeal of tape storage by empowering users with broader vendor choices, widespread interchange compatibility, and explicit technological advancement. Although consortium members would compete, they established extensive cooperation on standards, interchangeability, and compatibility for drives, media, and recording formats.

The first generation of LTO technology, LTO-1, was released in 2000 with a native capacity of 100 GB per cartridge and a throughput of 20 MB/s. Over the subsequent 25 years, LTO technology has advanced to 40 TB native capacity or 400x the original format. Today, LTO is the world's largest-selling tape technology, recognized as a de facto standard with drive shipments approaching 6 million units and the number of cartridges reaching almost 375 million.

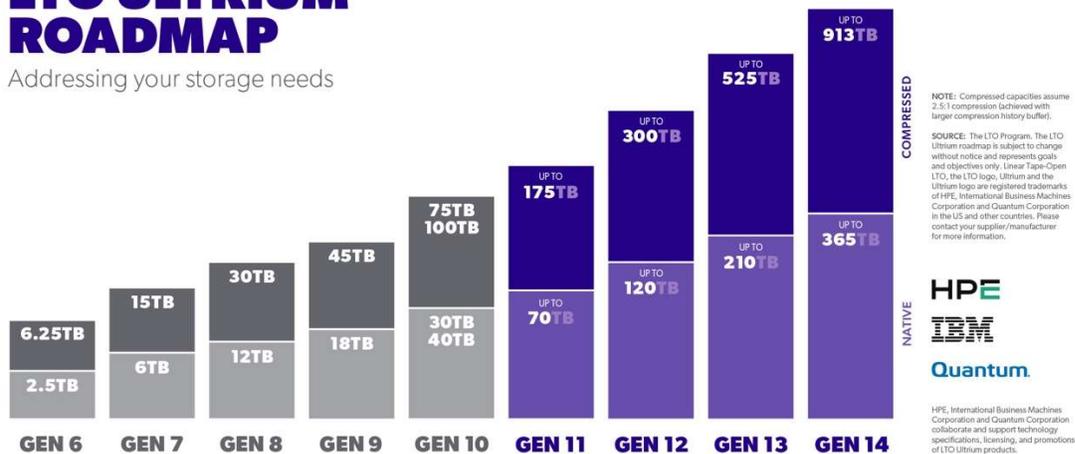


Second Generation LTO-2 Cartridge c.2002
 (SOURCE: T2hep, CC BY-SA 4.0
 <<https://creativecommons.org/licenses/by-sa/4.0/>>, via Wikimedia Commons)

From the early days of LTO technology, the LTO Consortium has practiced extreme transparency by consistently publishing a roadmap. As of December 2025, the specifications for future generations have been published out to LTO-14, which is expected to increase by another 900%, delivering a native capacity of 365 TB as shown below.

LTO ULTRIUM ROADMAP

Addressing your storage needs



PARTITIONING ENABLED LTFS | ENCRYPTION | WORM

LTO Roadmap, updated Dec, 2025 (SOURCE: The LTO Program, LTO.ORG)



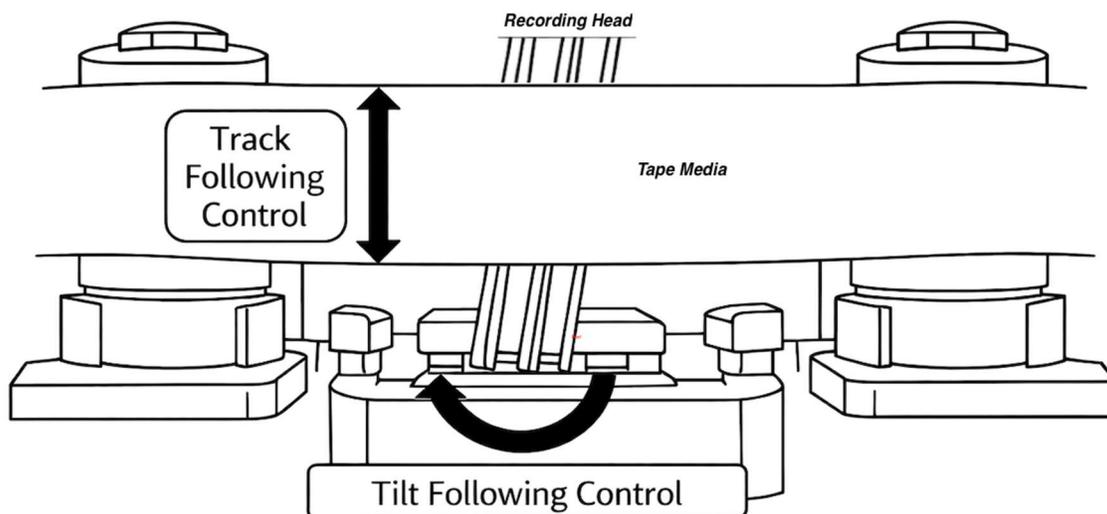
LTO-10: The Generational Leap

LTO-10 is a completely new design that required a substantial investment in every aspect of the technology, including media, recording heads, tape path, electronics/semiconductors, firmware, and software.

Spectra Logic announced support for LTO-10 in March of 2025, highlighting “a strategic leap in density, resilience, and sustainability³. However, this is just the beginning of the story. While LTO-10 users will immediately benefit from greater storage capacity and streamlined usability, the technological breakthroughs delivered with LTO-10 also provide a robust technology springboard that enables the next several generations of LTO technology. Let’s explore some of the most notable technology advancements available in LTO-10.

Revolutionary Recording: Dynamic Head and Tape Path Alignment

One of the most significant breakthroughs introduced with LTO-10 technology is a completely redesigned recording head assembly and tape handling path that dynamically optimizes head-to-tape alignment and Tape Dimensional Stability (TDS) in real time.



"Pisa" Tilting Head Assembly (SOURCE: IBM & Spectra Logic)

At the center of this innovation is the new read/write head assembly, informally known as the “Pisa” head (named after the famous leaning tower). Unlike fixed-geometry heads used in previous LTO generations, the Pisa head can tilt instantaneously with extreme angular precision to follow the tape moving across it.

³ SOURCE: Spectra Logic LTO-10 Press Release, May 28, 2025. <https://spectralogic.com/press-releases/lto-10-enterprise-archive-support/>

This capability represents a fundamental architectural shift and is a key enabler of LTO-10's dramatic increase in areal density, operational resilience, and ease of use.

The precision of Pisa head adjustments allows LTO-10 drives to write and read significantly narrower data tracks with greater accuracy, increasing both track density and bit density. This directly translates into higher cartridge capacities while preserving the familiar LTO cartridge form factor introduced in 2000. As tape media speeds over the recording head, subtle variations in tension, skew, dimensional characteristics, or environmental conditions are inevitable. The Pisa head actively compensates for these effects in real time, maintaining precise track following, preserving signal integrity, and reducing off-track errors during continuous, high-throughput operation — capabilities that are critical for non-stop enterprise, high-performance computing (HPC), and hyperscale environments.

LTO-10 read/write heads are based on Tunneling Magnetoresistance (TMR) technology, first introduced in LTO-8. Compared with earlier Giant Magnetoresistance (GMR) heads, TMR delivers higher signal sensitivity, improved resistance to interference and media variability, and enhanced wear characteristics. When combined with the dynamically adjusting Pisa head, TMR technology enables consistent density gains while improving overall drive reliability and longevity.

Additional precision is provided by a new head suspension mechanism and enhanced tape guidance system that improves TDS. TDS reflects the combined quality of head-to-tape alignment and the physical stresses experienced by the media — factors that directly influence data integrity, error avoidance, and media life. In LTO-10, TDS is continuously optimized through micrometric, real-time adjustments to tape tension.

Together, the Pisa head, active TDS control, and advanced tape handling eliminate the need for media calibration required in prior generations and deliver more consistent, resilient performance across a wide range of operating conditions. Beyond LTO-10, the Pisa head establishes a scalable foundation for future LTO generations, reinforcing tape's long-term roadmap for predictable capacity growth and reliability at exabyte scale.

Impact

As data volumes grow and storage infrastructures operate closer to their physical and economic limits, precise mechanical control becomes as critical as advances in media and electronics. The Pisa head enables LTO-10 to push areal density significantly higher without sacrificing reliability, ensuring consistent performance even as track widths narrow and media lengths increase.

By actively compensating for mechanical, environmental, and media-induced variations in real time, LTO-10 reduces operational risk, minimizes error recovery events,

and improves sustained streaming efficiency. This capability is especially valuable in always-on environments such as enterprise backup, large-scale archives, HPC, and AI data pipelines, where predictable performance and media longevity are essential.

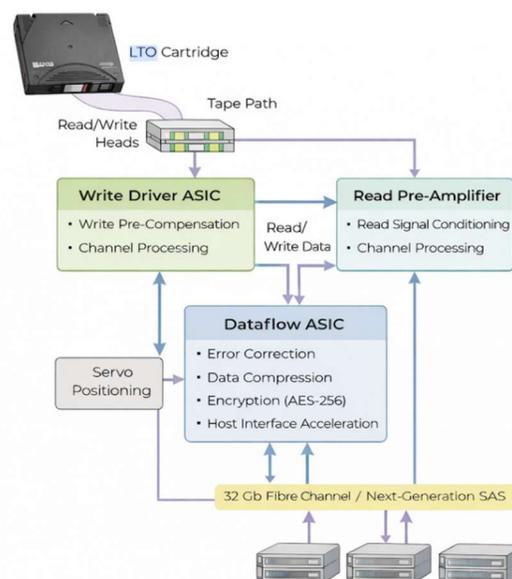
Equally important, the Pisa head represents a platform-level mechanical innovation that extends well beyond a single generation. Its dynamic, adaptive design provides the mechanical headroom required for future increases in performance and capacity, reinforcing LTO's ability to scale reliably to exascale deployments while maintaining tape's long-standing advantages in durability, efficiency, and total cost of ownership.

Silicon Smarts: The LTO-10 ASICs

The intelligence of a modern tape drive is embodied in its ASICs (application-specific integrated circuits), which integrate and coordinate the core functions required to reliably record, read, and protect data on magnetic tape. In LTO-10, these custom silicon components play a central role in enabling higher areal density, sustained throughput, and long-term format scalability.

At a fundamental level, the LTO-10 ASIC architecture performs high-precision signal processing for the read/write heads, manages servo control and micrometric head positioning across thousands of data tracks, and enforces the LTO format through block management, metadata handling, and cartridge interoperability. Hardware-accelerated error detection and correction ensure data integrity at extremely low bit error rates, while inline data compression and powerful AES-256 encryption provide performance efficiency and security without burdening host CPUs.

To support LTO-10 — and to establish a foundation for future generations — the LTO Program introduced a significantly more powerful and extensible silicon platform known as the Dataflow ASIC. This new ASIC delivers dramatically greater processing efficiency, internal bandwidth, and caching capacity, enabling higher sustained data rates and support for modern host interfaces such as 32 Gb Fibre Channel and 12 Gb SAS-3, including active optical cabling. The increased headroom in the Dataflow ASIC allows the drive to process larger volumes of data in parallel while maintaining deterministic performance during continuous streaming workloads.



LTO-10 ASIC Functional Architecture (SOURCE: Spectra Logic)

Complementing the Dataflow ASIC, the new Write Driver ASIC introduces advanced write pre-compensation capabilities. This function dynamically adjusts write characteristics to account for media behavior and channel interactions, improving signal fidelity while enabling future increases in the number of read/write channels and heads. This design flexibility is essential for scaling both performance and density in subsequent LTO generations.

On the read channel, enhanced Read Pre-Amplifier functionality incorporates anti-aliasing filters that improve signal-to-noise ratios at higher data densities. These improvements are increasingly critical as track widths narrow and bit densities increase, ensuring reliable readback and robust error margins under real-world operating conditions.

Together, the LTO-10 ASIC architecture represents a major step forward in silicon-driven tape innovation. By tightly integrating signal processing, media control, data protection, and interface acceleration, LTO-10 delivers not only immediate gains in performance and reliability, but also a scalable silicon foundation capable of supporting the long-term evolution of the LTO roadmap.

Impact

In an environment defined by accelerating data growth, higher performance expectations, and demands for increasing infrastructure efficiency, the LTO-10 ASIC architecture delivers tangible operational benefits. More powerful, purpose-built silicon enables future performance gains, more consistent streaming behavior, and improved utilization of high-capacity media — reducing idle time, start-stop wear, and overall system inefficiency.

Equally important, the extensible design of the Dataflow and Write Driver ASICs ensures that LTO-10 is not a one-generation optimization, but a long-lived silicon platform capable of absorbing future increases in channel count, density, and interface speed. This forward-looking architecture protects customer investments while enabling predictable, roadmap-driven scaling.

For organizations deploying tape as a foundational tier for backup, archive, cyber resilience, and AI data pipelines, LTO-10's advanced ASICs translate directly into higher reliability, lower operational risk, and sustained performance at scale — reinforcing LTO's role as the most dependable and future-ready tape technology available.

Magnetic Mastery: Advanced LTO-10 Tape Media

LTO-10 introduces a new generation of tape media engineered to deliver substantial gains in capacity, density, and long-term durability. LTO-10 cartridges are available in two native (uncompressed) capacities: 30 TB and 40 TB. The 30 TB cartridge was introduced with the initial LTO-10 launch in June 2025, followed late in the year by the higher-capacity 40 TB cartridge as advanced media manufacturing and qualification milestones were achieved.

Both cartridges leverage an advanced magnetic particle formulation incorporating barium ferrite (BaFe) and strontium ferrite (SrFe) technologies. This next-generation media represents a significant evolution over prior LTO generations, enabling approximately 1.67x higher native capacity and areal density compared to LTO-9, while retaining the familiar LTO cartridge form factor. The refined particle structure and tighter magnetic coercivity distribution support higher bit density, improved signal stability, and increased resistance to thermal and magnetic interference — critical attributes for long-term data preservation.

While the 30 TB and 40 TB cartridges share the same magnetic chemistry, the primary distinction lies in the tape substrate and total media length. The 30 TB cartridge uses approximately 1,035 meters of tape built on a proven polyethylene naphthalate (PEN) or “Spaltan” substrate. The 40 TB cartridge, by contrast, incorporates approximately 1,337 meters of tape enabled by a thinner, tougher poly-aramid (PA) substrate.

Poly-aramid materials belong to the same chemical family used in Kevlar® fiber⁴ which is widely known for its exceptional tensile strength and dimensional stability. While LTO-10 media is not designed to be bullet-resistant, the introduction of a PA substrate marks a major step forward in LTO media robustness. This tougher substrate improves resistance to stretching, wear, edge damage, and environmental fluctuations, enabling higher per-cartridge capacities, operation across a wider range of environmental conditions, and greater overall durability.

Together with advanced head positioning, more powerful error-correction algorithms, and enhanced TDS controls, LTO-10 media achieves maximum recording density while preserving enterprise-class reliability. The 30 TB cartridge provides an earlier on-ramp to LTO-10, making it well suited for initial deployments and mixed-generation environments, while the 40 TB cartridge delivers the highest storage capacity available in the LTO roadmap.

⁴ Kevlar® is a registered trademark of DuPont

Impact

In an era defined by AI-driven data growth and increasingly constrained power and floor space, LTO-10 media represents a major infrastructure upgrade. With up to 40 TB per cartridge, LTO-10 enables exabyte-scale tape archives within a single library system, using the most efficient and economical storage medium available. This density allows organizations to dramatically reduce physical footprint, power consumption, and long-term storage costs compared with disk- or cloud-based archival tiers.

New tape adopters that begin with LTO-10 gain an exceptionally flexible and future-proof storage foundation, capable of scaling predictably for decades as data volumes continue to grow. Current tape users can further optimize their environments by migrating workloads to LTO-10, unlocking higher density, improved performance, and a longer runway for sustainable, enterprise-grade data preservation.

Architecting Tape for the Exascale Era

As data volumes accelerate and long-term retention, cyber resilience, and energy efficiency rise on the priority list, storage infrastructure decisions increasingly carry architectural weight. Designing a perpetual archive, cyber-resilient disaster recovery environment, or mass-capacity compliance platform requires coordinated planning across automation, connectivity, management intelligence, applications, and media lifecycle strategy.

LTO-10 introduces significant advances in cartridge density and drive capability. Realizing the full value of these advances depends on integrating those drives into a scalable, well-orchestrated storage tier that aligns performance, automation, governance, and long-term operational continuity.

High-Density Robotic Automation

At any scale, cartridge density, robotic efficiency, upgradeability and serviceability directly determine physical footprint, power profile, and operational continuity. At exabyte scale these parameters drive large scale impacts.

As a result, modern tape libraries must:

- Deliver continuous, automated access without manual intervention
- Provide partitioning for workload isolation and multi-tenancy
- Facilitate completely remote management



*Spectra TFinity Plus Tape Library
(SOURCE: Spectra Logic)*

- Be easily upgradeable to the latest drive technology and library management software
- Offer redundancy options that support a range of uptime requirements
- Scale with minimal downtime
- Be readily serviceable with limited disruption

For example, high-density robotic platforms such as Spectra Logic's TFinity® Plus Tape Library demonstrate how multi-exabyte native capacity can be achieved within a highly-scalable unified library architecture. However, not all enterprises require exabyte scale and the majority of tape library installations range from a few petabytes to several hundred petabytes. Midrange libraries are designed to accommodate a broad range of specific capacities and budgetary requirements without compromising enterprise capabilities such as scalability, reliability, availability and serviceability. Examples of leading midrange tape libraries include the Spectra Stack (scalable up to 22 PB native) and the Spectra Cube (scalable up to 67 PB native).



*Spectra Cube Tape Library
(SOURCE: Spectra Logic)*

Technology cycles evolve — mainframe, client-server, cloud, AI — but durable infrastructure principles endure. High-density robotics and upgradeable library architectures protect long-term investments by allowing the archive tier to adapt alongside an unpredictable future.

Intelligent Library Management

Automation without visibility introduces risk. Exascale archives require management platforms capable of:

- Real-time telemetry and health monitoring
- Media analytics and lifecycle tracking
- Partition management
- RESTful API integration for orchestration
- Secure access controls and encryption management

Library operating environments such as the Spectra Logic LumOS demonstrate how modern tape systems incorporate analytics and automation intelligence directly into the platform.

At multi-exabyte scale, operational predictability becomes as important as raw capacity.

Media Governance and Lifecycle Discipline

When archives scale to tens or hundreds of thousands of cartridges, media variability becomes a systems-level variable.

Exascale environments benefit from:

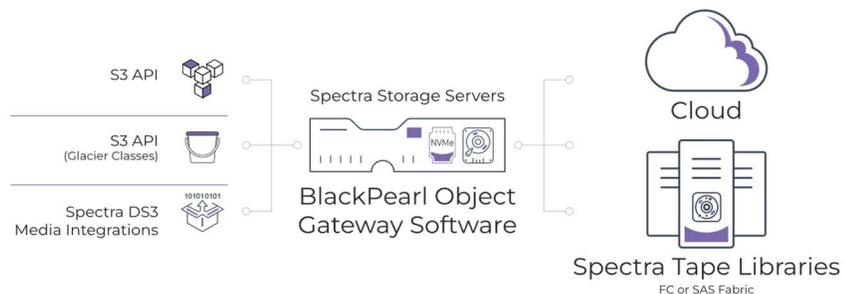
- Qualified and validated media sourcing
- Cartridge tracking and usage monitoring
- Environmental condition controls
- Proactive lifecycle replacement policies

Programs such as Spectra Certified Media provide the assurance of a lifetime warranty and illustrate how media validation and lifecycle governance reduce variability across large cartridge populations, strengthening long-term data integrity.

The architectural lesson: media quality and lifecycle discipline must scale with capacity.

Object-Based Tape and Cloud-Integrated Architectures

Modern data environments are increasingly built around object storage semantics. AI pipelines, analytics platforms, media workflows, and cloud-native applications rely on S3-compatible interfaces and metadata-rich object models to manage data at scale. As a result, long-term storage tiers must integrate cleanly into object-based ecosystems rather than operate as isolated archive silos.



Object-Based Tape Architecture (SOURCE: Spectra Logic)

Object-based tape extends LTO-10 beyond traditional backup and vaulting use cases by preserving object identity, metadata, and access semantics directly on tape media. Instead of writing opaque file aggregates, object-aware architectures maintain granular object visibility across flash, disk, and tape tiers. This enables policy-driven data movement, transparent recall, and consistent application access across the storage hierarchy.

Platforms such as Spectra Logic’s BlackPearl Object Gateway illustrate how object storage can be extended natively to tape. By presenting a standards-based object interface while intelligently orchestrating data placement across flash, disk, and LTO media, this approach allows tape to function as a fully integrated object tier rather than a detached archival endpoint.

Cloud integration further strengthens this model. Hybrid deployments can replicate or tier object data between on-premises infrastructure and public cloud environments, aligning cost, sovereignty, and access requirements. In this architecture, tape becomes a strategic control point — reducing exposure to unpredictable retrieval fees while maintaining durable, air-gapped protection against ransomware and tampering.

In this context, LTO-10 is not simply higher-density media. It serves as a foundational tier within an object-aware, cloud-integrated storage architecture — combining exabyte scalability, long-term durability, and intelligent lifecycle management within a unified framework.

Fabric-Based Connectivity

As LTO-10 throughput increases, traditional point-to-point SAS connectivity can become a limiting factor in large deployments.

Modern tape environments increasingly benefit from switched SAS fabric-based connectivity models that:

- Extend drive connectivity over optical distances
- Enable flexible drive sharing across hosts
- Simplify scaling compared to Fibre Channel SANs
- Reduce cable density and physical complexity

Optical SAS switching technologies, such as Spectra’s OSW-2400, illustrate how tape connectivity can evolve toward a simplified, fabric-oriented model better suited for high-density AI and HPC data centers.

The architectural principle is clear: at scale, connectivity must be designed — not improvised.



Spectra Logic OSW-2400 Optical SAS Switch (SOURCE: Spectra Logic)

Tape as Engineered Infrastructure

When LTO-10 drives are deployed within high-density automation platforms, connected via fabric-based architectures, managed through intelligent telemetry systems, and supported by disciplined media governance, tape evolves from a storage device into a strategic infrastructure tier.

This distinction is consequential.

In the AI era, archives must simultaneously:

- Scale predictably for decades
- Minimize power and cooling consumption
- Withstand cyber threats through air-gapped resilience
- Preserve data integrity across generational technology transitions

Exascale tape architecture requires intentional design across mechanical, electronic, robotic, connectivity, and lifecycle domains. Vendors that specialize in archive engineering provide enabling technologies that illustrate these principles — but the enduring value lies in the architectural discipline itself.

LTO-10 makes exascale capability accessible to a far broader range of organizations. Engineered ecosystems make it sustainable — delivering long-term operational efficiency, investment protection, and architectural continuity.

Conclusion

LTO-10 represents a decisive leap forward in addressing the challenges of large-scale cold data storage in the AI era. More than a single-generation capacity increase, LTO-10 is a platform transformation — introducing a new recording architecture, advanced silicon intelligence, and next-generation media that together redefine what linear tape can deliver.

With innovations such as dynamic head alignment, purpose-built ASICs, enhanced error correction, and high-strength poly-aramid media, LTO-10 establishes a foundation designed to scale for decades. These advances enable dramatic gains in capacity, density, performance, and reliability while preserving tape's unmatched advantages in cost efficiency, energy consumption, and long-term durability.

Importantly, LTO-10 marks a convergence of capabilities that were once exclusive to so-called *enterprise tape* systems. Technologies historically found in proprietary platforms — such as ultra-thin, high-strength media substrates and enterprise-class dimensional stability controls — are now integral to the LTO roadmap. As a result, LTO is no longer an

alternative to enterprise tape; it is positioned to supplant proprietary tape technologies altogether as they naturally phase out of the market.

As legacy enterprise tape platforms such as IBM TS11xx- and Oracle T10000-class systems approach end of life, LTO-10 emerges as the industry's clear path forward offering superior scalability, higher data density, faster innovation cycles, broader ecosystem support, and dramatically better economics. For organizations building exascale archives, cyber-resilient data protection strategies, and sustainable AI pipelines, LTO-10 is not just the future of LTO. It is the future of tape.

In the AI era, the distinction between “enterprise tape” and LTO disappears — because LTO-10 *is* enterprise tape, delivered with greater scale, speed, and value.

About Spectra Logic

Spectra Logic is a leader in data management and data storage solutions, providing innovative products that help businesses manage, preserve, protect, and defend their data. Our offerings include tape storage, file and object storage, and comprehensive data management software. We are committed to delivering high-quality, reliable, and scalable solutions to help organizations efficiently manage, migrate, and store long-term data with features that make it ransomware resilient.

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