

S3 TAPE LIBRARY

ENTERPRISE OBJECT ARCHIVE. POWERED BY TAPE.

Native S3 Interface — High-Speed Cache —
Cost-Optimized Long-Term Archive

LTZero S3 Tape Library combines the simplicity of the S3 protocol with the economics, scalability, and long-term reliability of tape. Applications write data using standard S3 APIs, while the platform intelligently manages data placement between high-speed cache storage and enterprise tape.



**NATIVE S3
INTERFACE**

Connect applications using standard S3 APIs without requiring changes to existing workflows.



**HIGH-SPEED
CACHE LAYER**

Incoming objects are first written to cache disk, delivering responsive and efficient data ingest.



**POLICY-BASED
TAPE ARCHIVE**

Data is automatically archived from cache to tape based on configurable policies and retention timing.



**LOWEST LONG-TERM
TCO**

Leverage tape for economical, high-capacity storage and long-term data retention.



**ENTERPRISE
DATA PROTECTION**

Combine encryption, tape isolation, and Offline Partition capabilities for stronger protection against ransomware and unauthorized access.

S3 TAPE LIBRARY ARCHITECTURE



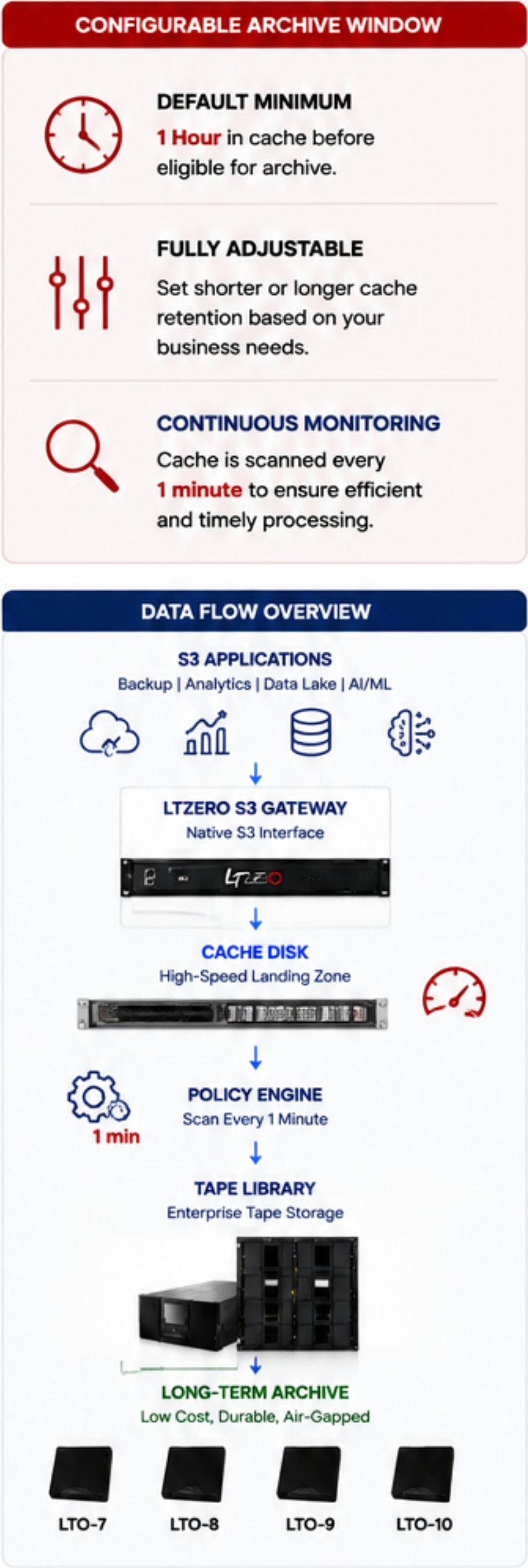
S3 SIMPLICITY. DISK-LIKE INGEST. TAPE ECONOMICS.

INTELLIGENT CACHE-TO-TAPE WORKFLOW

SOLUTION BRIEF

Fast Ingest. Flexible Retention. Automated Archive.

LTZero S3 Tape Library uses an intelligent cache layer and policy-driven engine to manage the movement of data from high-speed disk to cost-efficient tape for long-term retention.



WHY LT ZERO S3 TAPE LIBRARY?

SOLUTION BRIEF

S3 SIMPLICITY. TAPE ECONOMICS. ENTERPRISE PROTECTION.

The LTZero S3 Tape Library delivers a modern object storage experience with unmatched long-term retention, security, and cost efficiency.

BUILT FOR A WIDE RANGE OF USE CASES



BACKUP & DATA PROTECTION
Use S3-compatible backup solutions to protect data while leveraging tape for economical long-term retention and recovery.



OBJECT ARCHIVE
Archive large volumes of object data without maintaining expensive disk capacity indefinitely.



DATA LAKES & AI / ML
Store and manage massive datasets and move inactive data to tape for cost-efficient long-term preservation.



MEDIA & DIGITAL ASSETS
Preserve video, images, research data, and other large digital assets for years or decades.



COMPLIANCE & LEGAL RETENTION
Meet regulatory and compliance requirements with secure, immutable, and long-term data retention.



RANSOMWARE PROTECTION
Leverage Offline Partition and air-gapped tape storage to create an additional layer of protection against ransomware attacks.

WHY CHOOSE LTZERO S3 TAPE LIBRARY



HIGH-PERFORMANCE INGEST
High-speed cache disk absorbs incoming S3 writes for fast, efficient ingest and seamless user experience before data is archived to tape.



FLEXIBLE & POLICY-DRIVEN
Define how long data remains in cache before being moved to tape. Default minimum 1 hour, fully adjustable to meet your requirements.



LOWEST LONG-TERM TCO
Tape offers the lowest cost per TB of any storage medium for retaining data over months, years, or decades.



SCALABLE ARCHITECTURE
Scale S3 gateway nodes, cache capacity, and tape library slots independently to grow with your data requirements.



OFFLINE & AIR-GAPPED PROTECTION
Offline Partition isolates tape data from network access, providing air-gapped protection against cyber threats and unauthorized access.



S3-BASED SIMPLICITY
Integrate easily with any S3-compatible application, tool, or workflow. No proprietary APIs or complex middleware required.



ENTERPRISE RELIABILITY
Built with enterprise-grade components, data integrity validation, encryption, and comprehensive monitoring for mission-critical environments.

KEY FEATURES



INTUITIVE WEBGUI & CLI
Easy-to-use interface and CLI for efficient management and monitoring.



DATA PROTECTION
Air-gap protection with Offline Partition, encryption, and immutability options.



MULTI-SITE REPLICATION
Asynchronous replication to a second XtreamStore for DR and geo-protection.



DATA REST API
REST API enables third-party integration for extended metadata access and automation.



PERFORMANCE
Policy-based disk cache (internal or SAN) ensures tunable read/write performance for S3 workloads.



DATA COMPLIANCE
Data categorization and segmentation based on users or business units.



SCALABILITY
Embedded NoSQL architecture supports billions of objects without performance loss. Scale up to 138PB, up to 8 libraries, and up to 189 drives.



MULTI-TAPE COPY & LIBRARY
Create up to four tape copies per library and manage one or more tape libraries from a single system.



METADATA-DRIVEN ARCHIVING
Advanced metadata-driven features help efficiently optimize storage and data lifecycle.



COMBINATION WITH METADATA HUB
Leverage the world's first Metadata Hub to harvest embedded metadata and deliver advanced data analysis capabilities.

ENTERPRISE TAPE LIBRARY OPTIONS

LTZero IP Tape Library

Scale-out tape libraries over IP networks. No Fibre Channel infrastructure required.



SUPPORTED LTO GENERATIONS



LTO-7



LTO-8



LTO-9



LTO-10



ENTERPRISE GRADE. BUILT TO LAST.

Designed for 24x7 operations with high availability, data integrity checks, and continuous monitoring.

ONE INTELLIGENT DATA LIFECYCLE



S3 INGEST

Write data using standard S3 APIs.



CACHE DISK

High-speed landing zone for fast ingest.



AUTO SCAN

System scans cache every 1 minute.



POLICY EVALUATION

Default minimum 1 hour in cache. Fully adjustable.



ARCHIVE TO TAPE

Automatic migration to LTZero Tape Library.



LONG-TERM ARCHIVE

Low cost. Durable. Air-gapped protection.



From S3 ingest to long-term tape archive — simplified, automated, and cost-optimized.