AI DATA RETENTION & REUSE
Solution Brief

Do More with Your AI Data

AI data can remain valuable long after its active use. Spectra® helps organizations economically retain and protect AI data while keeping it available for retraining, retrieval-augmented generation (RAG), analytics, governance, and other AI workflows.



AI Data Keeps Growing. Keep Its Storage Costs Under Control.

AI workflows create growing volumes of valuable data that may be needed long after active use. Keeping it on high-cost storage increases capacity pressure. Deleting it risks losing data that may be expensive or impossible to recreate.

Preserve More AI Data Without the Cost of Active Storage

Reduce the cost of AI data growth.
Move inactive AI data off high-cost active storage.

Protect retained AI data for the long term.
Maintain integrity, availability, and visibility while supporting governance and compliance requirements.

Put AI data back to work.
Reuse data for retraining, RAG, analytics, governance, and other AI workflows.

Put Preserved AI Data to Work

Model Snapshot Retention

Preserve model snapshots, checkpoints, and supporting data without consuming higher-cost active storage.

Governance, Legal Hold & Compliance

Retain AI models, training data, and associated records to support governance, legal, regulatory, audit, and accountability requirements.

Model Retraining

Preserve training data and model assets so they can be retrieved and reused to retrain and refine AI models over time.

The Business Value of AI Data Retention & Reuse

Reduce Long-Term AI Storage Costs
Move inactive AI data off higher-cost active storage.

Free Capacity for Active AI Workloads
Reclaim primary storage capacity for active workloads and continued AI growth.

Avoid Costly Recomputation
Preserve valuable datasets rather than pay to recreate them later.

Support Governance & Accountability
Retain AI data and model history to support legal, regulatory, audit, and accountability requirements.

Reduce Power & Infrastructure Demands
Lower power, cooling, and infrastructure requirements for inactive AI data.

Preserve Future Data Value
Keep valuable AI data available for new uses as requirements, models, and opportunities evolve.

Built for the AI Data Lifecycle

Active AI Environment
AI Workflows

Training, RAG, analytics, and other AI workflows use data on active, performance-oriented infrastructure.

Move
Spectra StorCycle® Software or third-party data mover

Move AI data that no longer requires active-tier performance from primary storage to the long-term storage environment.

Manage
Spectra BlackPearl® Object Gateway

Provide object-based access and manage the interaction between applications and tape storage.

Retain & Protect
Spectra Tape Libraries

Economically retain valuable AI data with intelligent library management.

Retrieve & Reuse
Spectra BlackPearl Object Gateway

Retrieve retained AI data for retraining, RAG, analytics, governance, and other AI workflows.

Why Spectra

Proven Production Experience
Enterprise-proven technology with long-term production use across HPC, AI, and genomics environments.

Deep Integration Expertise
More than 15 years of software-vendor integrations with solutions like the BlackPearl BlackPearl Object Gateway.

Intelligent Long-Term Data Protection
Monitoring media, drives, library hardware, the operating environment, and data readability to help protect data over time.

Object-Based Access to Tape
BlackPearl Object Gateway provides object-based access to tape, keeping retained AI data accessible for future reuse.

Preserve the Value of Your AI Data

AI data retains value long after today's workload is complete. Retain it economically, protect it with confidence, and keep it available when future AI workflows need it.

Request a Meeting with a Spectra Expert

CASE STUDY

Earth Sciences New Zealand Te Whatu Ao

Earth Sciences New Zealand securely retains and reuses decades of scientific data for advanced AI-driven modeling, improving forecasts that help protect people, infrastructure, and communities.

85 PETABYTES
Designed archive capacity

25 YEARS
Protecting over 25 years of data, ranging from meteorological patterns to seismic records

2
4-frame Spectra TFinity® tape libraries

> "Our partnership with Spectra Logic is central to protecting and managing the nation's data assets so they can be reliably used at scale, including for advanced AI-driven modeling. This gives us a much stronger basis to plan, protect people and infrastructure, and make decisions with more confidence."
>
> **- Warrick Johnston,**
> Chief Digital & Technology Officer of ESNZ

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