

Spectra StorCycle® Enables Digital Archive for Data at Scale

Enterprise software for digital preservation

StorCycle® is designed to archive and manage terabytes to petabytes of unstructured data without sacrificing data availability. StorCycle is intuitive and simple to use while supporting multiple use cases including long-term archive, digital preservation, project archive and migrating data to the most cost-efficient storage tier.

Archive data for the long-term

StorCycle is designed to preserve large volumes of digital content that requires compliance, cannot be recreated and must be securely stored for the long-term. Digital data including historical documents, video, scientific research data and genomics data are a few examples of content that require a modern and efficient archive solution. In addition to securely storing data, StorCycle empowers end users to create reports and search and restore individual files or entire datasets.

StorCycle scales to archive, store and manage petabytes of data with flexible archive options.

- **Project Archive:** Preserve large datasets for data retention.
- **Bulk Archive:** Migrate, manage, and protect long-term data at a low cost.
- **Active Archive:** Retain growing datasets while maintaining user accessibility.

Control storage costs

StorCycle delivers policy-driven automation to manage the migration of data from high-cost, high-performance storage to cost-efficient secondary storage. The solution provides the flexibility to choose the most optimal tier of storage for infrequently accessed data - including disk/flash, cloud, and tape.

- **Disk/Flash:** Offers near-instant access to archived data.
- **Cloud:** Allows organizations to take advantage of their cloud initiatives and investment.
- **Tape:** Provides the most cost-effective storage and an offline air gap copy of data.

Isolate archive data from ransomware

StorCycle offers the assurance that archived data is protected from ransomware and that immutable data can be quickly and easily recovered. Encryption during the migration and restore keeps data safe in-flight and at rest. StorCycle also takes advantage of ransomware-resilient secondary storage, including Object Lock, immutable NAS snapshots, and offsite air gap with tape – providing organizations with a cost-efficient, ransomware-resilient data archive.

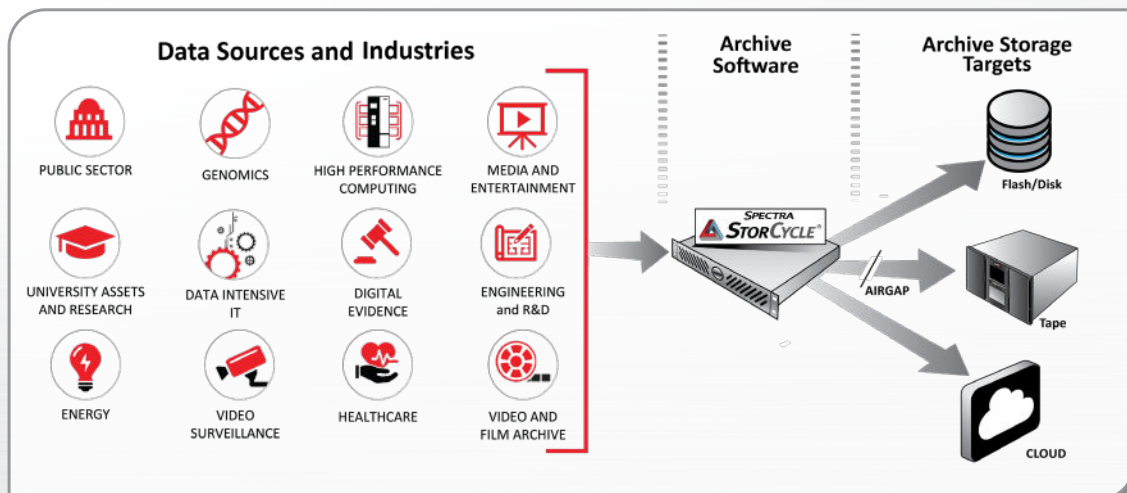
- **Offsite air gap:** Tape is the most cost-effective, ransomware-resilient storage medium. A tape cartridge is securely stored offsite and not connected to the internet or network in any way.
- **Immutable snapshots:** Triggered and scheduled immutable NAS snapshots allow for volumes to be restored to a point in time and can be replicated to offsite storage for additional ransomware protection.
- **Object Lock:** S3 Object Lock helps prevent objects from being deleted or overwritten for a fixed amount of time or indefinitely.
- **Encryption:** Encryption in-flight and at rest may be enabled to protect data throughout its lifecycle.

BENEFITS

- Immutability
- Policy-Driven Automation
- Compliance
- Storage Optimization
- API and GUI-Driven Interfaces

StorCycle Workflow

StorCycle enables organizations across multiple industries to take advantage of a truly cost-efficient, easy-to-implement archive. Supporting a variety of storage options offers assurance that data is stored on the appropriate storage target.



Retain data with authenticity for future utilization

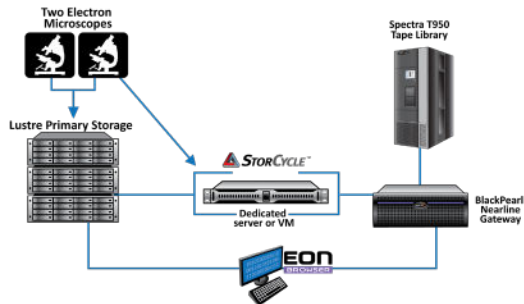
StorCycle archives data while maintaining the authenticity and integrity of the data, which are essential for facilitating data reuse. Versioning of archived data, supporting diverse storage formats, and the ability to restore data in the original format provide assurance that the data has not been altered, which is ideal for multiple industries that require data to be stored and recoverable.

- **Object Lock:** Prevents objects from being deleted or overwritten.
- **Tape/Nearline:** Supports ejected copies and is considered air gap.
- **Cryptographic and CRC hash:** Checks the integrity of a file to verify authenticity.

Manage and migrate large datasets

StorCycle simplifies the organization and archiving of large datasets, while providing full access from the source. Users can selectively archive data in bulk to ensure the entire dataset is retained and accessible in its native format. Archiving multiple copies of data on the appropriate tier of storage is crucial for data that requires recoverability, should the primary archive copy be unavailable. StorCycle supports multiple storage targets and offers organizations the ability to create as many copies of data as required.

Korean Institute for Basic Science (IBS)



IBS is Korea's first dedicated basic science research institute that specializes in long-term projects with large numbers of researchers

Challenges:

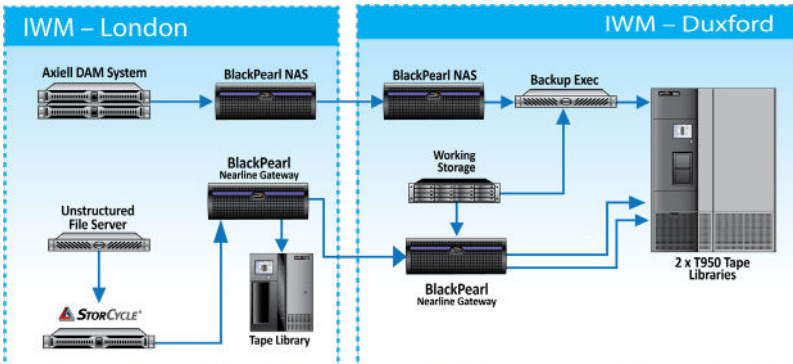
- New cryo-EM microscope is creating 2TB per day of data
- Needed high-capacity system to store and expand as needed

Solution:

StorCycle scans and moves data from their Lustre file system, writing new data daily to BlackPearl Nearline Gateway, which in turn writes 2 copies to a Spectra T950 tape library.

StorCycle Use Case 1

Imperial War Museum in the UK



IWM digitally preserves history in 5 branches that attract over 2.5 million visitors a year. Home to hundreds of thousands of films, videotapes, audio recordings and photos that must be preserved forever

Challenges:

- The current archive is 750,000 digital assets totaling 1.5PB of data dating back to the 1930s
- New scans in their collection generate an additional 10TB of data a month

Solution:

StorCycle scans and moves data from their digital asset management applications, writing new data to BlackPearl and 2 Spectra tape libraries in different locations.

StorCycle Use Case 2

StorCycle Specifications

- Subscription or Perpetual licenses available
- Install on a Windows and/or Linux server
- Can manage tens of billions of files
- Maintains original metadata and file formats - CIFS/SMB, NFS, S3, LTFS

Industries

- Media and Entertainment
- Research and Development
- Engineering
- Genomics
- HPC
- Higher Education
- Healthcare
- Video Surveillance
- Public Sector
- State and Local Government
- Video and Film Archive
- Computer Simulation
- Data-Intensive IT

About Spectra Logic Corporation

Spectra Logic develops data storage and data management solutions that solve the problem of long-term digital preservation for organizations dealing with exponential data growth. Dedicated solely to storage innovation for over 40 years, Spectra Logic's uncompromising product and customer focus is proven by the adoption of its solutions by leaders in multiple industries globally. Spectra enables affordable, multi-decade data storage and access by creating new methods of managing information in all forms of storage — including archive, backup, cold storage, private cloud and public cloud. To learn more, visit www.SpectraLogic.com.