



SPECTRA
 BLACKPEARL[®]

Multi-Purpose Hybrid Storage Use Cases





BlackPearl is a multi-purpose hybrid storage platform that easily and cost effectively scales up as object and file volumes grow; adapts as operational requirements change; and enables easy synchronization of data between on-premises and cloud storage.

A flexible solution that can grow

A solution that grows as data increases and is flexible as use cases evolve

- Scale-up architecture
- Combines disk and flash for high performance
- NFS, SMB, S3, Spectra DS3 or on-prem glacier*

Able to store large volumes of data

Storage of large volumes of data across on-prem and/or cloud

- Seamless support for on-prem glacier storage
- Failover of production data to the public cloud for disaster recovery
- Bi-directional data synchronization for automatic replication of on-prem and cloud data
- Apply cloud service and on-prem processing regardless of data location

Built-in cost savings now and in the future

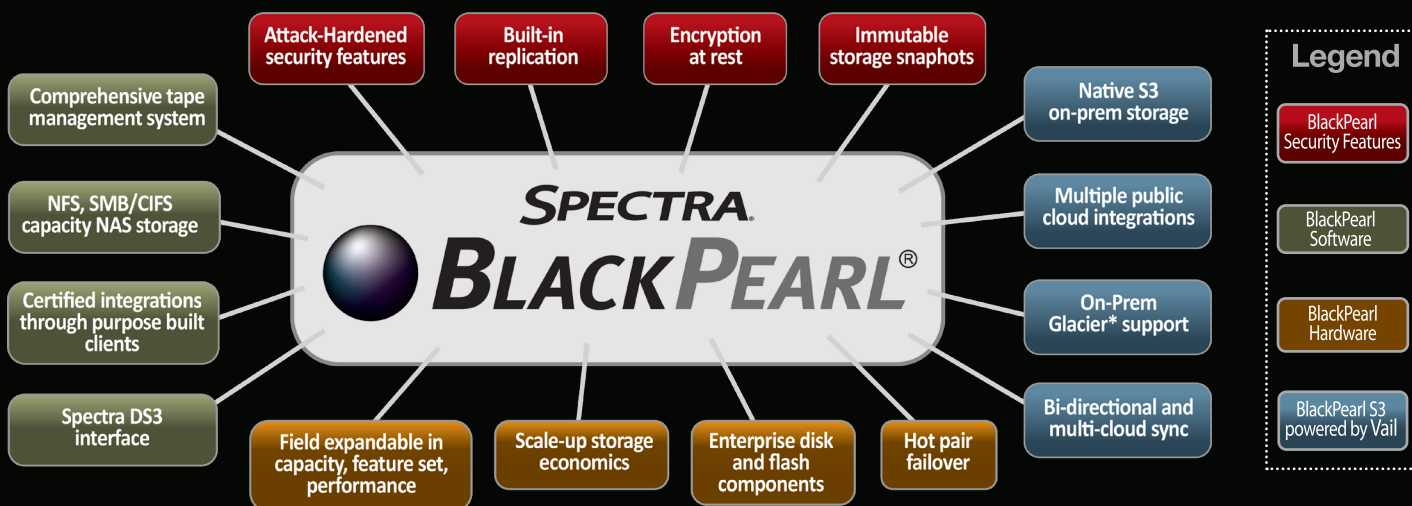
A cost-effective storage solution initially and long-term

- Scale-up NAS architecture allows for multiple petabytes of disk/tape at lowest cost
- Very high density with spin-down disk capabilities for cost and power efficiency
- Data compression prior to encryption for efficiency and security
- Simplified access to tape to store petabytes of data cost effectively

Protecting your data from cyber attack

Smarter way to protect data from external cyberattacks and insider threats

- Virtual air gap protection through immutable snapshots and multi-factor authentication
- Physical air gap to automated tape
- Ability to seamlessly replicate data offsite or to public cloud for disaster recovery
- Optional failover of control module
- Enterprise-grade self-encrypted SAS tape drives
- Object locking**



*Amazon Glacier® is a registered trademark of Amazon Technologies, Inc.

** Future Release

Example Use Cases for The BlackPearl Platform:



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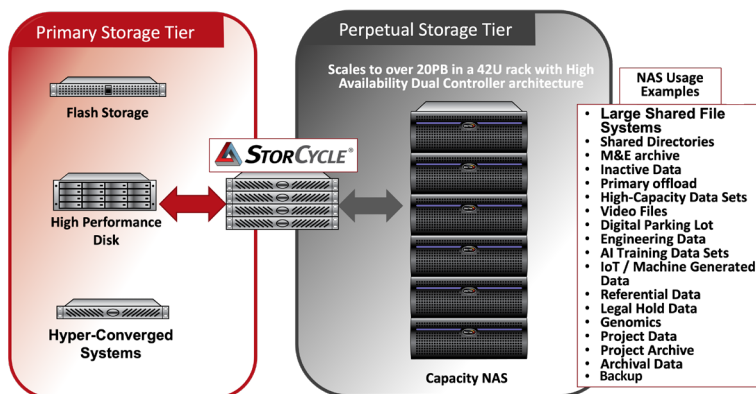
The Challenge:

Find a way to effectively manage and store all their data that they are required, by industry standard, to keep for a minimum of 10 years. This organization needed a solution that allowed them to identify legacy data and transparently move it to an active archive on a weekly basis. Additionally, corporate video files have been growing and needed a final resting place once the project was completed.

The Solution:

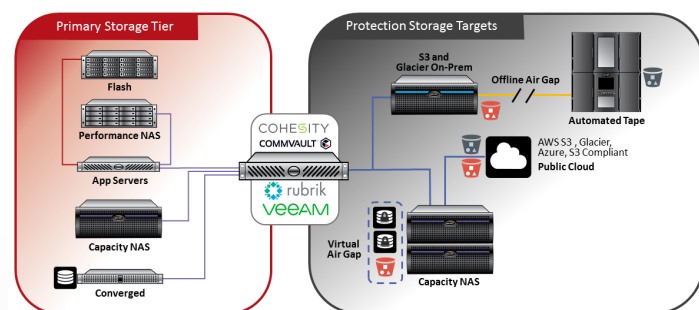
The Spectra NAS Solution is an easy-to-use appliance designed for storing large volumes of data. The Spectra NAS solution doubles as an ideal archive repository and a backup target with room to grow as data sets increase over time. Data is identified and automatically archived to the Spectra NAS solution from various storage systems, including Windows and Linux file servers, by StorCycle®. The BlackPearl platform solved the challenge of storing the growing data set, but also offered a forward-looking platform that allows for growth and changes in their environment without losing the investment they made in BlackPearl.

BlackPearl Capacity NAS Use Case



The Challenge:

Finding a platform that was able to grow with their organization. Beginning with a simple NAS backup target but with plans to be a shared resource for backup and archive utilizing NAS and S3 protocols.



The Solution:

StorCycle was used initially to identify inactive data, but once the amount of data was realized it was determined that migrating that data off of their primary storage was needed as the amount of inactive data was approaching 70% of their total storage capacity.

By implementing StorCycle and leveraging BlackPearl's Native S3 capabilities, a long-term copy was able to be made in their on-prem glacier, or tape library, for long term preservation. Another copy was needed in the public cloud for distribution purposes and with BlackPearl's Native S3 extension it was easy to integrate public cloud distribution workflows into the existing architecture.

BlackPearl Attack-Hardened Use Case

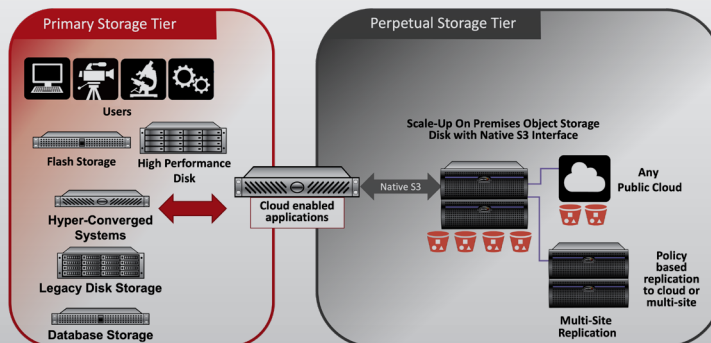
The Challenge:

Maintain application integration to data regardless of whether it is stored in the cloud or locally. Additionally, integrate into the public cloud so the organization can use AI / facial recognition compute services and retrieve data back to their local system for further use.

The Solution:

The goal was to outsource mass data from the production area in such a way that it would be highly available. After looking at using a public cloud provider, but the costs were prohibitive. With backup data, the amount of data is often so large that a costly, high-performance internet connection is required to keep recovery time down. As an alternative to the public cloud an on-premises private cloud solution based on BlackPearl was selected to integrate storage and cloud needs into a single workflow. The BlackPearl storage solution offers management simplicity similar to a public cloud, but because it's in the company's own data center, it doesn't require a cost-intensive, high bandwidth internet connection. In addition, BlackPearl's scale-up object storage architecture can be scaled to unlimited capacities.

BlackPearl Native S3 Use Case

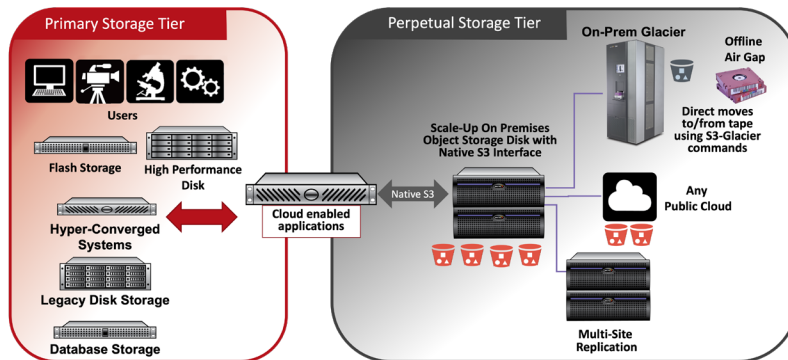




BlackPearl On-Prem Glacier Use Case

The Challenge:

Find an affordable and accessible way to preserve their data. Ideally, they can implement a limitless retention period and offer unlimited storage to their employees. Maintaining access to data and providing a cloud exit strategy are also keys to the solution.



The Solution:

This organization worked to implement a BlackPearl On-Prem Glacier solution for a disaster recovery archive, to assure their content would be protected and preserved forever. They installed a Spectra BlackPearl with Native S3 storage and On-Prem Glacier storage with a Spectra tape library. Using BlackPearl's On-Prem Glacier extension to unlock the power of tape and the economical storage, paired with a disk layer for instant access, there is a true cloud-like architecture all located on-prem. For additional protection, a disaster recovery copy is made and stored in the public cloud in the event of a local disaster.

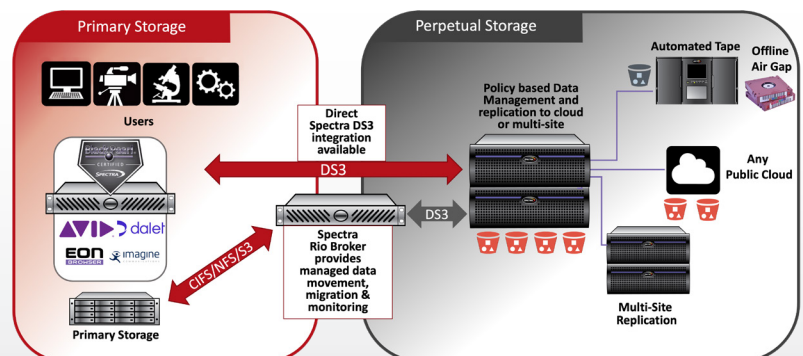
BlackPearl Nearline Gateway Use Case

The Challenge:

This research institute applied for a National Institute of Health (NIH) grant for research that required a large data archive system with a long retention period. They were hoping to collaborate with fellow scientists and archive data for long-term retention with data volume reaching into the hundreds of petabytes.

The Solution:

This archival solution of BlackPearl nearline gateway and a T950 automated tape library offered unbeatable density, reliability and scalability to help the institute store mass quantities of data to support the NIH project. The BlackPearl was connected in their data center to an existing application designed by Globus. Globus, a Spectra Logic technology partner, offers software solutions specifically designed for the education industry, making the sharing of research data easier. The Globus client software allows the faculty to easily move data files between computers, servers and its supercomputing facility, using a simple browser. This prevents groundbreaking research efforts from being stalled when IT technical issues arise. BlackPearl platform enables the university to archive and share petabytes of information in a convenient solution. IT technical issues arise. BlackPearl platform enables the university to archive and share petabytes of information in a convenient solution.



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About Spectra Logic Corporation

Spectra Logic develops a full range of Attack Hardened™ data management and data storage solutions for a multi-cloud world. Dedicated solely to data storage innovation for more than 40 years, Spectra Logic helps organizations modernize their IT infrastructures and protect and preserve their data with a broad portfolio of solutions that enable them to manage, migrate, store and preserve business data long-term, along with features to make them ransomware resilient, whether on-premises, in a single cloud, across multiple clouds, or in all locations at once. To learn more, visit www.spectralogic.com.

