SPECTRA
BLACKPEARL®

Multi-Purpose Hybrid Storage Platform

The Spectra BlackPearl Platform is a software-enabled storage platform, based on a flexible, scalable architecture that can manage disk, tape and cloud storage across multiple sites.

BlackPearl Network Attached Storage

SPECTRA BLACKPEARL®

What is BlackPearl NAS

BlackPearl NAS with a scale-up architecture provides expandable enterprise-grade NAS storage. It can be deployed as either a standalone system or combined with additional software extensions as part of the BlackPearl platform. BlackPearl NAS is designed to provide secure, scalable storage for a variety of use cases, including backup, online shared storage, capacity offload and more.

Benefits of BlackPearl NAS

Enterprise-grade data protection
- Ransomware-resilient features designed into product for extra protection
- Self-encrypting disks and multi-factor authentication provides additional security

Flexible for many workloads
- Designed for unstructured data
- Extensible to S3 storage with optional tape-out

Easily expandable bulk storage
- Scale-up architecture allows low-cost expansion and growth
- Over 20PB in a single rack, expandable to hundreds of PB

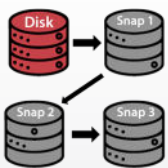## BlackPearl Ransomware-Resilient Storage

Constant threats loom against data. Whether they be external from an outside threat actor, such as ransomware, or internal, from a disgruntled employee, or accidental from human error, data must be protected equally so that business continuity can be maintained. The best defense is to avoid having to deal with bad actors and to be able to restore data and infrastructure back to a pre-attack state using best practices.

BlackPearl is offering a ransomware-resilient approach to data protection that will counter the challenges mentioned above and give organizations greater leverage in avoiding the harrowing experience of negotiating with criminal elements of the underworld.

BlackPearl Ransomware-Resilient Features

Triggered Immutable Snapshots:
Snapshots, or point-in-time copies of a volume, let you restore a volume to the state it was in when the snapshot was created. BlackPearl interfaces with backup software via pre and postscripts. After the snapshot is complete, Spectra provides code to be used to make the target volume read-only.

Multiple Types of Air Gap:
- **Virtual Air Gap** - Replication inside BlackPearl unit
- **Remote Air Gap** - Replication to a remote BlackPearl
- **Offline Air Gap** - Tape copy of data

Multi-Factor Authentication:
BlackPearl works with Google Authenticator to confirm the identity of any user trying to log into the BlackPearl system.

Tape Storage for Offline Storage:
BlackPearl has full integration with Spectra automated tape libraries and can provide a fully protected, offline copy of your data to ensure no outsider threat can access that offline data.

Multi-Site Replication:
BlackPearl can replicate to another volume in the same BlackPearl system, a separate system located in the same onsite location, a different offsite location, or a remote cloud target.

Self-Encryption:
BlackPearl can be configured with self-encrypting drives (SED). This is excellent protection of the data if a drive is being sent back for repair or being disposed of at end of life.

SPECTRA
BLACKPEARL®

BlackPearl S3 Hybrid Cloud Workloads Powered by Vail Software

The need to protect data in hybrid cloud environments is growing exponentially as IoT and digital transformation drives data growth. Ninety-two percent of organizations already have a multi-cloud strategy, and the transition comes with challenges and concerns. Three prevalent concerns include security (83%), cloud spending (82%), and governance (79%). These challenges are driving organizations to reevaluate their on-prem data protection strategies to ensure that their data is protected as they continue to increase adoption and move workloads to hybrid cloud.

BlackPearl S3 Delivers Integrated Cloud Features

- 100% compatible with Amazon S3 and Amazon S3 Glacier*
- Policy-based data movement and tiering
- Replication to public cloud for disaster recovery
- Software upgrade to a glacier tier of storage
- Object Lock for data immutability

Glacier Tier of Storage

- 100% compatible with Amazon S3 Glacier
- Object storage disk provides instant retrieval of long-term data
- Object storage tape provides a deep archive tier of storage for long-term retention

Benefits of BlackPearl S3

- Provides ransomware resiliency and security
- Integrates with any S3-compatible application
- Encrypts at rest and in-flight, eliminating unintended data exposure

On-Prem Hybrid Cloud Storage

- Delivers the long-term retention functionality of cold storage in the cloud with on-prem performance
- Optimized for storing large, unstructured datasets at a fraction of the cost of public storage
- Object storage tape expands to multiple exabytes of storage

## Object Storage with Seamless Cloud Integration

Organizations require data protection solutions that support both the public and private cloud.

The solutions must scale to meet the demanding data growth, and address the cost, security and governance requirements.

Spectra BlackPearl S3 delivers secure, scalable on-prem cloud storage at a low price point. It is the only on-prem object storage platform on the market that is 100% compatible with both S3 and S3 glacier-enabled applications. BlackPearl S3 object storage disk provides fast recovery of frequently accessed data.

When configured with an S3 glacier tier of disk storage, the data resides on spin-down disk with near-instant recovery of long-term data.

BlackPearl S3 combined with glacier tape is ideal for long-term retention of data, providing air-gap protection.Whether deploying a private, public or hybrid cloud, BlackPearl S3 will scale while offering the protection to meet corporate SLA, governance, and security requirements.
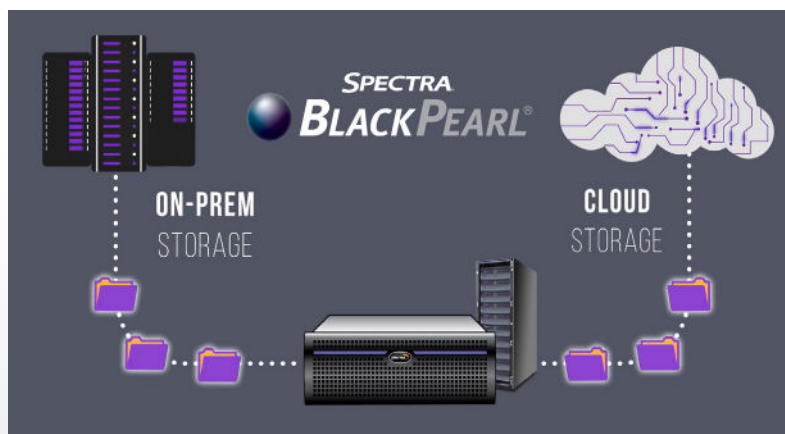
Advantages of On-Prem Glacier Solutions

BlackPearl On-Prem Glacier combines the benefits of Amazon S3 Glacier with the performance, security and cost efficiency of on-prem cloud storage. Cloud integration with 100% Amazon S3 Glacier compatibility enables BlackPearl On-Prem Glacier to be seamlessly inserted into familiar workflows - including full interoperability with modern data protection solutions and all S3-compatible applications. The hybrid cloud implementation delivers on-prem storage that is scalable, high-performant and ransomware resilient with optional replication to public cloud.

Simply and Affordably Preserve Data

Spectra BlackPearl Nearline Gateway solves the problem of costly and complex approaches to digital preservation. With support for a variety of storage targets, BlackPearl Nearline Gateway provides a simple and affordable solution and is designed for numerous concurrent workflows. By integrating Spectra DS3 with a range of certified clients and simple file movers, BlackPearl Nearline Gateway reduces the need for expensive third-party data movers.

Support for Multiple Storage Targets and Concurrent Workflows

- BlackPearl Object Storage Disk can be implemented for instant access to all data
- Public cloud storage can be configured as a storage target, for long-term retention and disaster recovery
- Advanced policy management defines the storage target retention and number of copies
- The RESTful interface automates the movement of large data sets to and from disk and tape storage

Multiple Integration Methods

- BlackPearl RioBroker software acts as a data mover to speed file transfers, streamline workflows and scale out performance and capacity
- Spectra DS3 enables third-party data management applications to seamlessly move data to and from disk and tape storage
- API and SDK available for easy purpose-built integrations and to create the desired workflow for every organization

Secure Ransomware Resiliency

- Secure on-premises storage that protects data from internal and external threats, tape provides offline air-gap copies of data
- Multi-tenancy ensures data is isolated with restricted visibility
- Encryption at rest and in-flight eliminates unintended data exposure

BlackPearl's Nearline Gateway storage solution for disk, tape and cloud

Spectra's BlackPearl Nearline Gateway interface modernizes the use of tape

The first RESTful interface to tape, Spectra Nearline Gateway provides BlackPearl and client interaction via REST, allowing you to move large data sets easily to and from automated tape storage. The user only moves data through the client while BlackPearl handles all interaction with storage targets, including automated tape libraries. There are many Spectra BlackPearl Nearline Gateway clients that have been built by Spectra, its partners and its customers. Customers can also build their own Spectra DS3 integrations for custom workflows with the free Spectra Logic Developer Program.

BlackPearl RioBroker®

BlackPearl RioBroker is a software front-end to BlackPearl that acts as a data mover to speed file transfers, streamline workflows and scale out in both performance and capacity to accommodate growing amounts of digital assets. As a software front-end to BlackPearl, BlackPearl RioBroker offloads the data transfer job from the application to the BlackPearl RioBroker system, bringing greater performance and consistency to the entire platform. BlackPearl RioBroker simplifies the integration process to popular asset management software applications. It also facilitates seamless content migration from legacy storage software to a modern solution.

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

About Spectra Logic Corporation

Spectra Logic develops a full range of full range of 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.

GSA
47QTCA20D0064

V1-020623