



BlackPearl® Nearline Gateway Custom Integration Through Certified Applications

Simply and Affordably Preserve Data

Spectra's BlackPearl Nearline Gateway solves the problem of costly and complex approaches to digital preservation. Spectra BlackPearl Nearline Gateway configured with multiple storage targets 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 reduces the need for expensive third-party data movers.

A simple approach to interface and managing tape and unlocking tape's true calling – BlackPearl takes user-defined buckets, caches the buckets on high-speed disk or flash storage and determines the best time to write it to tape for greatest system performance. To ensure perpetuity and ease of access for your data, the BlackPearl system writes data on tape in the open LTF5 format.

BlackPearl's automatic tape compaction feature provides self-activated consolidation of data on fragmented tapes, reclaiming deleted tape storage space. In addition, BlackPearl's media migration capability allows data to be migrated from one storage type to another, quickly and transparently, which ensures data integrity while reducing costs. The feature automatically migrates data in the background, allowing users to continue to archive and restore data without interruption. It also makes it easy for users to upgrade to new technologies without disruptions.



Example of Nearline Gateway Applications



The Spectra Logic BlackPearl Nearline Gateway provides an easy, cloud-like interface to on-premises storage solutions, including Spectra tape and disk libraries, and multiple public cloud integrations. The cloud interface is called Spectra DS3, and a software client transfers data to the BlackPearl Nearline Gateway. Many BlackPearl Nearline Gateway clients already exist, with full integration into data management software. Customers can create their own clients or modify existing clients to custom fit their workflows and environments.

BlackPearl's Nearline Gateway storage solution with synchronization in the 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. Learn how to get started building [here](#).

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. Learn more about Spectra BlackPearl Rio Broker data mover [here](#).
Learn how to integrate BlackPearl RioBroker [here](#).

Use Case of BlackPearl as a Nearline Gateway

The Goal:

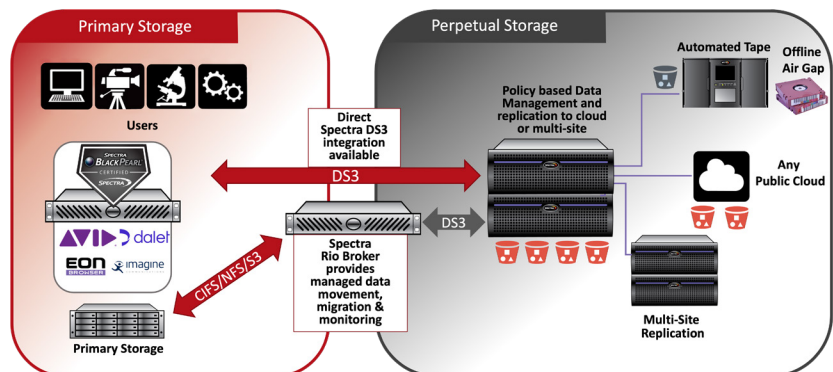
This organization was looking to expand their research area of expertise into other areas of research but doesn't have the infrastructure to support the vast amount of data they will collect.

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 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.



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.

