BlackPearl RioBroker:
Intelligent Data Mover for BlackPearl

BlackPearl® RioBroker,® Spectra's newly released data mover, is a software front-end to the Spectra BlackPearl Platform Storage System. With a simplified API that expands BlackPearl's enterprise-class features, it can be used ideally in Media & Entertainment workflows or general IT environments.

Clustered* Scale-Out Access to BlackPearl

- Simpler API
- Clustered and scale-out access to BlackPearl
- Common namespace across multiple BlackPearls
- Common namespace across BlackPearl and legacy systems

Data Movement

- Offloads data transfer functions from application and BlackPearl
- Creates consistent performance profile, independent of applications
- Load balances across cluster nodes
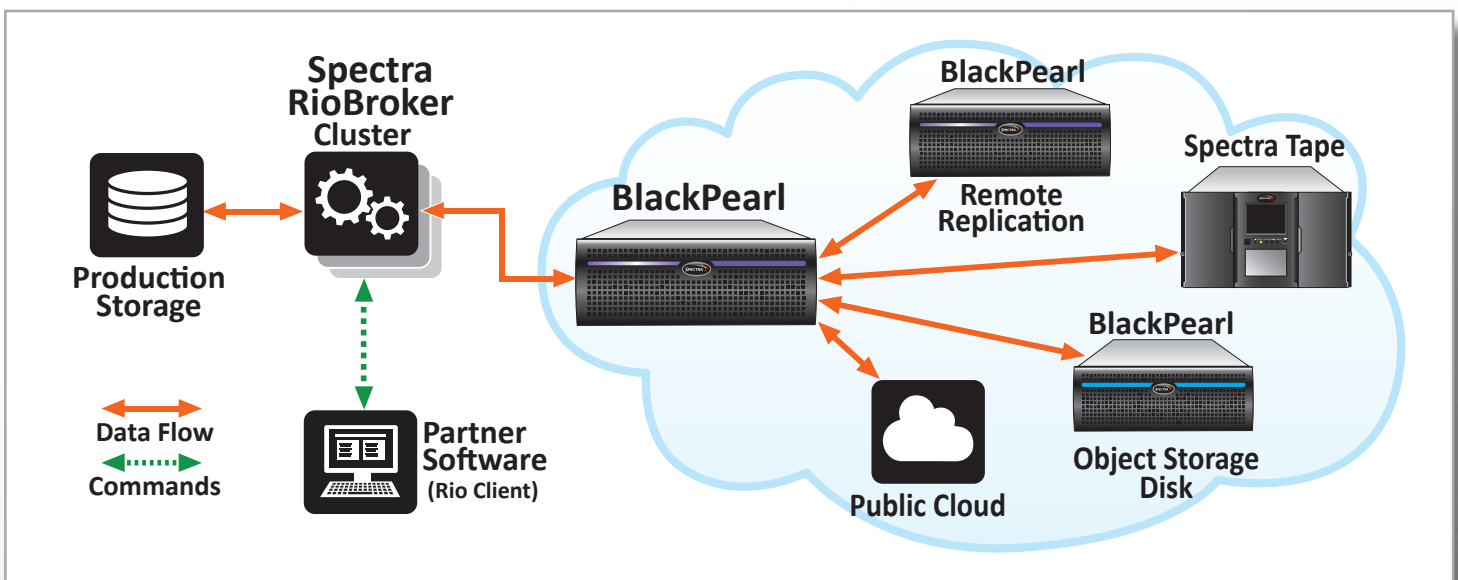
High Availability*

- Seamless failover for cluster nodes
- HotPair BlackPearl failover behind BlackPearl RioBroker
- Sharded and replicated database
- Multi-site failover via replication and DNS swap

Scale Performance and Capacity

- Add additional BlackPearl RioBrokers for performance*
- Add additional BlackPearls for scale-out capacity
- Search and retrieve assets across multiple BlackPearls

Spectra RioBroker Cluster

Production Storage

Data Flow
Commands

Partner Software (Rio Client)

BlackPearl

BlackPearl
Remote Replication

Spectra Tape

BlackPearl
Object Storage Disk

Public Cloud

Data Movement

BlackPearl RioBroker facilitates data movement between storage product and BlackPearl with maximum efficiency. Maintaining its own job queue and status information, it manages data movement between production storage and the BlackPearl system.

Clustering*

With BlackPearl RioBroker clustering capability, should the need for greater performance arise, additional BlackPearl RioBrokers can be added to the system. Data movement functions are spread across cluster nodes, balancing the load and parallelizing data transfer for the highest performance possible.

High Availability*

In environments where high availability is required, within a BlackPearl RioBroker cluster a primary node is dedicated, while other nodes are allocated as secondary systems. Should a failure occur on the primary, the secondary BlackPearl RioBroker node will take over, inheriting the primary's configuration, providing for zero downtime. Should secondaries fail, the load will be distributed.

Partial File Recovery

BlackPearl RioBroker includes Time-Based Partial File Restore (TPFR), independent of the application. BlackPearl RioBroker creates an index of media files that it moves to the archive. Using this TPFR a client application can use both time codes or byte offsets to restore a partial file or sequence of a video.
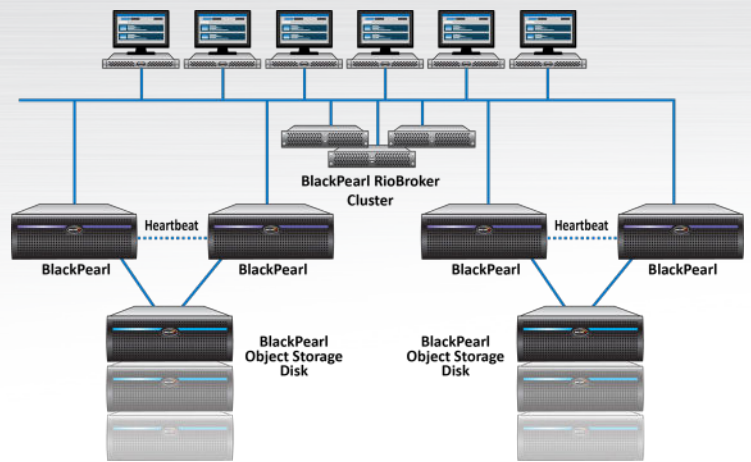
Multiple Data Transfer APIs Supported

BlackPearl RioBroker supports the ability to retrieve files from production storage using a file system interface (CIFS/SMB, direct attached, NFS, etc.) or an FTP interface. And BlackPearl RioBroker is designed to easily be able to add and support additional interfaces in the future.
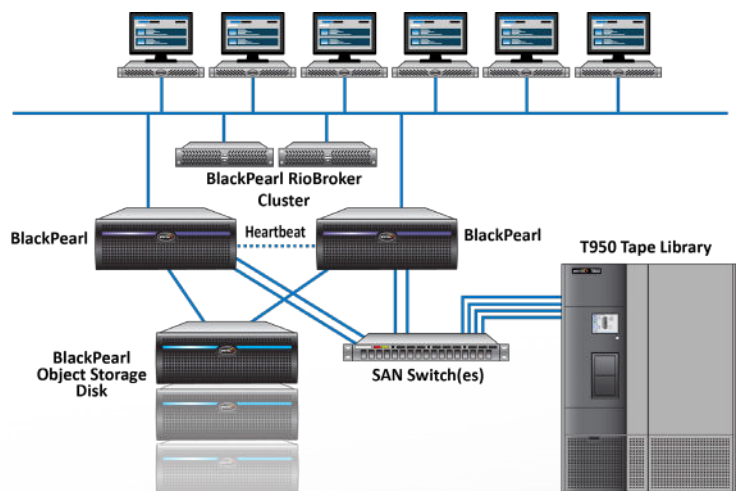
Migration Enablement

With Spectra Migration Services and BlackPearl RioBroker, organizations can automate migration from legacy storage systems to the modern BlackPearl platform. Migration is seamless, non-disruptive to production and takes place in the background. BlackPearl RioBroker facilitates the retrieval of assets during migration via a common namespace, whether on the legacy system or on BlackPearl.

BlackPearl RioBroker® Clustering*

BlackPearl High-Availability Configuration*

Available in future release of Spectra RioBroker.

About Spectra Logic Corporation

Spectra Logic develops a 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.

V1-011723

SPECTRALOGIC.COM