Reach Engine and BlackPearl Technical Solution Brief

Spectra BlackPearl Archive for Levels Beyond Workflows

Spectra's BlackPearl® Converged Storage System enables Reach Engine users to archive content directly to any number of storage mediums (including public cloud) to meet business needs, while balancing cost, performance and the required workflow, with a predictive cost model.

How does it work?

BlackPearl is directly integrated into Reach Engine allowing users to archive their content to disk, tape and/or public cloud in an affordable and automated fashion, that is transparent to the user.

Benefits

- Seamless integration eliminates need for costly middleware
- Easy plug-and-play deployment
- Low TCO with predictable cost model
- Automated workflow from production and ingest to archive and distribution
- Multi-tenant and multi-site – all through a single portal
- Standard LTFS format on tape
- Transparent archive and restore process

How does BlackPearl fit into the Reach Engine workflow?

The BlackPearl and Reach Engine integration provides users with an automated workflow for the ingest, archive, restore and distribution of content. Within the Reach Engine application and even within the Adobe Premiere interface, users can see content status (online/offline). If the content has been archived on disk, tape and/or cloud, users can simply trigger the restore action and Reach Engine will automatically broker the movement from BlackPearl to production storage or to the desired restore repository. With the integrated BlackPearl and Reach Engine solution, the entire archive and restore process is completely transparent to the end-user.

Media Ingest

Digitization of Legacy Assets

Tape Library

Archive Disk

Public Cloud
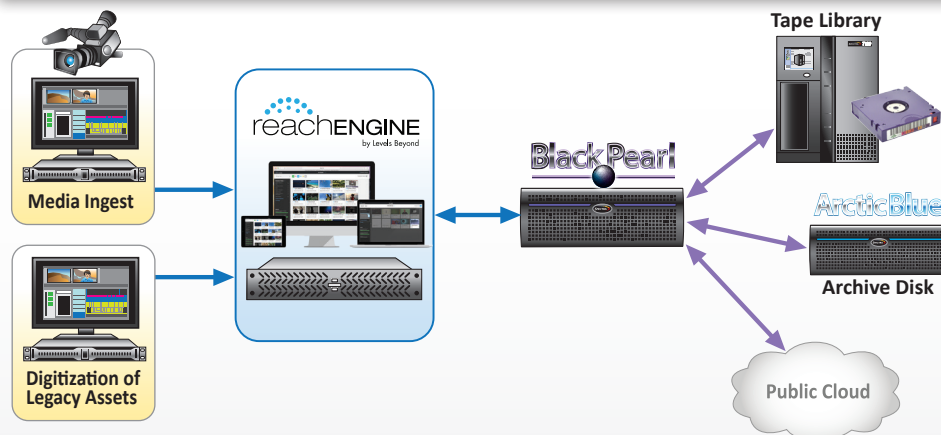
BlackPearl System Features

- Performance
  - 300 MB/sec to 3 GigB/sec
- Database
  - 50 million to 1 billion objects
- Spectra tape library support: T50e through TFinity® ExaScale
- Drives and media – LTO, IBM® TS11XX
- Phone home support
- Seamless scaling
  - Nearline disk: up to 4.2PB of enterprise in a single rack
  - Archive disk: up to 6.1PB in a single rack
  - LTO -- 1 to 144 drives, and up to 56,230 slots, 337PB native (TFinity ExaScale)
  - IBM® TS11XX up to 144 drives, and up to 44,910 slots, 419PB native (TFinity ExaScale)

Disaster Recovery Features:

- Open standard LTFS
- Disaster recovery copies
  - Remote BlackPearl, cloud, ejected tape for offsite disaster recovery
- Database backup:
  - BlackPearl database
  - Reach Engine database
- Easy failover to remote BlackPearl

BlackPearl Solution Features:

- Multi-tiered storage (disk, tape, cloud)
- Seamless cloud integration
- Multi-tenant capable
- Partial file restore (PFR)
- Tape eject for offsite DR
- Automatic tape repack*
- Continuous data integrity check
- Proactive system monitoring
- Non-disruptive data migration

- Data management policies (Advanced Bucket Management)
  - Flexible data retention policies
  - Multiple copies
  - Program grouping
- Automatic backup of all databases
- Archive non-managed assets via BlackPearl® Eon Browser

*Roadmap feature

System Requirements

About the Solution

The BlackPearl and Reach Engine certified solution delivers seamless workflows, minimizes file movements on production networks, and reduces network traffic. It provides intelligent, seamless management of massive amounts of content across multiple storage tiers, both on premise and in the cloud.

Reach Engine adds content intelligence to automated media workflows. Paired with BlackPearl, Reach Engine manages content lifecycles using business and media metadata. The integrated solution offers content creators and owners a hybrid solution, ensuring media is always accessible, whether that be within the edit suite or a direct-to-digital channel.

SPECTRA   **Basic Setup**

A BlackPearl must be configured and available for network communications with the ReachEngine system. The BlackPearl S3 hostname, access key, and security key must be set up. Spectra Logic BlackPearl 3.5 or later is required.

reachENGINE *by Levels Beyond*   **Requirements**

Requires ReachEngine 1.13 or above.

V1-042117

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