

BlackPearl: Modern Storage for Media & Entertainment

**MODERNIZE YOUR  
STORAGE**

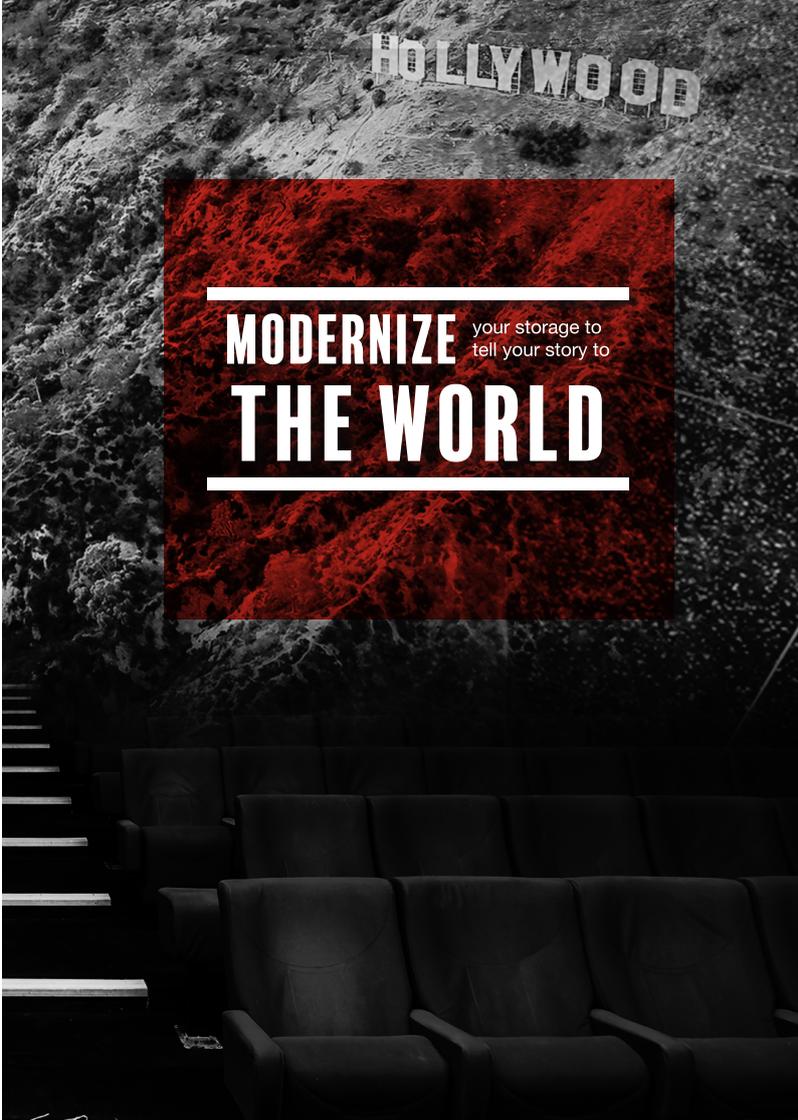




As engagement and spending by content consumers shifts toward curated content platforms, media and entertainment organizations must adopt a new set of technological strategies that streamline the workflow and accommodate the storage of ever-increasing quantities of content.

Challenges will be numerous for broadcasters, production studios, and other entertainment organizations that do not modernize their storage systems. Outdated network architecture and proprietary systems make it difficult to move media into a cohesive centralized system and distribute it in an efficient and reliable manner. Traditional storage systems overburden enterprises with costly options for growth that inhibit innovation.

Adopting a modern storage solution will enable these organizations to store, find, restore and, ultimately, ensure access to their valuable content quickly and reliably in the future.



THE HOLLYWOOD

**MODERNIZE** your storage to  
tell your story to  
**THE WORLD**

## Modern Content Storage with BlackPearl

Spectra's BlackPearl® Converged Storage System incorporates feature-rich software within the ultimate hardware platform to modernize content storage. The BlackPearl solution provides organizations with the openness, efficiency and control they need to store, access and restore their content. It provides a storage solution with the lowest total cost of ownership (TCO), protecting both initial and ongoing investments and adapting to changing business models.

The BlackPearl modern storage solution was engineered to optimize both software and hardware as a single, self-managing, cloud-enabled storage platform. Its software design facilitates increasing content by offering “growth-enabling” licensing. Combining this software philosophy with hardware that is “TranScalable” across capacities, technologies, and interfaces yields the ultimate software-refined, hardware-optimized, and purpose-built platform for digital assets.

The purpose-built solution incorporates hard drives, flash drives, CPU, RAM, Network Cards, and SAS or Fibre Channel HBAs into a series of customizable packages.

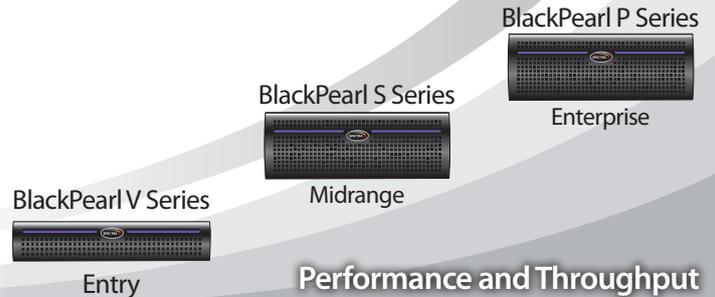
# MODERNIZE your storage to curate YOUR CONTENT

## Flexibility at its Finest

With its modern IP-based storage architecture, BlackPearl manages multiple storage tiers, providing users and their environments with the ultimate control over their content and where it resides.

Choosing from disk, tape and/or public cloud, any environment can find the perfect balance between fast, concurrent access and budget constraints. BlackPearl replicates remotely or locally to other BlackPearls for failover and high availability.

With three different performance levels, BlackPearl meets the needs of every media organization. The entry-level BlackPearl V Series was designed to accommodate up to 300 million objects and can transfer data to tape at 300 MB/s. The BlackPearl S Series delivers up to one billion objects and can transfer data up to 800 MB/s. For organizations that need superior performance the BlackPearl P Series was designed for up to one billion objects and transfers data to disk and tape at an amazing 3000 MB/s.



## Storage Target: ArcticBlue

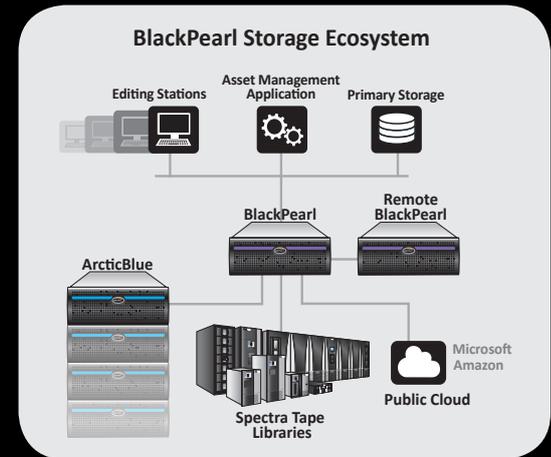
Powered by BlackPearl, ArcticBlue® is a modern, simple, capacity-intensive storage system that is easy-to-manage and scales up to 10PB (up to 1PB useable per 4U chassis), allowing for the cost-effective storage of content. With a simple API, ArcticBlue helps consolidate islands of storage and enables the sharing of content amongst a host of applications to enable efficient, innovative workflows. ArcticBlue's power-down feature extends its life up to seven years, alleviating the need for a typical forklift upgrade common in three to four years.

## Storage Target: Spectra Tape Libraries

To effectively manage and protect content affordably, BlackPearl seamlessly stores assets on Spectra tape libraries - including the new Spectra® Stack Tape Library. Content is stored efficiently on scalable, cost-effective, reliable LTO and IBM® TS tape media. Spectra's TranScale functionality allows Spectra tape libraries to adapt to accelerating content creation - scaling from 10 slots to just shy of 54,000 slots.

## Storage Target: Public Cloud

BlackPearl's hybrid architecture allows users to leverage the cloud dynamically to accommodate disaster recovery. BlackPearl acts as a centralized object storage gateway that enables massive amounts of data to be stored forever, at virtually no additional management cost, on premise or on public cloud from both Microsoft Azure and Amazon Glacier.



# Moving Content to BlackPearl

## BlackPearl Certified Partner Clients

Through key media and entertainment application partnerships, Spectra delivers industry-leading modern solutions that meet the needs of any workflow to create, collaborate, monetize and distribute content. Directly integrated within asset management applications, content is seamlessly stored to BlackPearl. Multi-tenancy capability allows users to run multiple applications simultaneously and share a BlackPearl.

## Migrating from Legacy Systems to BlackPearl

Designed for modern workflows, the Spectra Migration Solution is a comprehensive offering that supports the seamless and transparent movement of content from Front Porch Digital or SGL legacy systems to the Spectra BlackPearl Converged Storage System. Using Spectra's EscapePod technology, through published API's, DIVA® and FlashNet, data is moved directly to Spectra's BlackPearl Converged Storage System.

## BlackPearl Customer Created Clients

Customers can create their own client or modify an existing client to create a storage solution perfectly customized for their workflow and environment. The Spectra Logic Developer Program provides a comprehensive set of tools needed to build a Spectra S3 Client or Customer Created Client (CCC) – including a BlackPearl simulator, sample clients, software development kits, and documentation. All of these tools are freely downloadable and most are open source and backed by a variety of users in the Spectra GitHub community.

DIVA is a registered trademark of Oracle Corporation.





Eon Browser for BlackPearl is a free, open-source, graphical application to move files between a file system and BlackPearl with a simple drag-and-drop action.



Eon Protect for BlackPearl moves critical database backups and settings files via BlackPearl on to the cloud or a vaulted tape for the highest level of offsite protection.



Cyberduck

BlackPearl's integration into Cyberduck, one of the most popular file transfer applications in the world, allows for transfers between BlackPearl and many other storage types.

**Java Command Line Interface**

The Java Command-Line Interface (CLI) allows command-line archive and restore actions, and allows users to script and schedule basic file movement workflows.

**Software Development Kits**

Software Development Kits (SDKs) are available for assistance in building a Spectra S3 application in several programming languages (Java, C#/.NET, Python, Go, and C). The SDK's provide a layer of abstraction over, and fully encompass all available Spectra S3 HTTP commands.



## About Spectra

Spectra Logic develops solutions that address the storage needs of media and entertainment professionals dealing with exponential content growth. Dedicated solely to storage innovation for nearly 40 years, Spectra Logic's uncompromising solutions and customer focus is proven by adoption of its solutions by industry leaders in markets globally. Spectra enables affordable, multi-decade content storage and access to digital assets by creating new methods of managing information in all forms of storage – including nearline, archive, backup, cold storage, private cloud and public cloud.

To modernize your storage contact:  
[broadcast@spectralogic.com](mailto:broadcast@spectralogic.com)

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A Few Spectra Media and Entertainment Customers



smoke&mirrors



PBS





**MODERNIZE** your storage  
**HISTORICAL MOMENTS** to access your



**MODERNIZE** your storage  
to preserve your  
**VIDEO ASSETS FOREVER**

Envision a world where...

business models change and initial investments remain protected

you have full ownership, access, and control over your content

software is fully integrated with hardware

...with a modern storage

# Tenants of a Modern Storage Solution



## Ongoing Value

An economical, modern content storage solution will create ongoing value and provide the lowest TCO. It protects both initial and ongoing investments while removing complexities and evolves alongside changing business models.



## Open

Open standard code eliminates constraints of proprietary formats. Its customizable architecture allows users to create their own clients, or choose from any of the fully integrated leading asset managers in the industry. BlackPearl meets the needs of the enterprise; from private to public cloud and all future technology developments.



## Control

Control grants users the ultimate control over content and its security including the location and number of copies of their content. BlackPearl makes it easy to access and recover data, providing greater business continuity. Its flexible interfaces allows content to be stored to the desired tier(s) of storage based on business needs, and adapts to workflow requirements and technology evolution.



## Efficiency

Integrated and simple, BlackPearl is a single, centralized gateway - easy to manage and support. Streamlining and simplifying the workflow it eliminates unnecessary third party software. BlackPearl's configurable data policies decrease time to restore and deliver greater productivity. Its modular architecture seamlessly scales to meet growth needs while delivering efficiency.



**MODERNIZE** your storage  
to enable  
**YOUR CREATIVITY**

## Flexibility at it's Finest

With BlackPearl's product family, media and entertainment organizations will find the perfect fit for their workflow. Base product configurations are customizable to adapt to the specific storage needs and can later be upgraded to meet changing throughput, capacity and access requirements that are experienced with content growth.

## Looking to the Future

Designed as the optimal disk platform for the storage of mid-tier data, including production storage offload, data staging, backup and archiving, BlackPearl Network Attached Storage (NAS) costs as little as pennies per gigabyte.

Platform Upgrade: Easily TranScale BlackPearl NAS to a BlackPearl Converged Storage System adding full object storage with multiple storage tiers

Performance Upgrade: Leverage flash-only pools for increased speed

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Easily and affordably manage media files while planning for the future with BlackPearl Network Attached Storage (NAS) traditional file system (CIFS/NFS).

- High-capacity archive cache
- Central or utility storage
- Ingest platform
- Digital parking lot

