



CASE STUDY

RTHK builds storage solution for the future: a highly available dual-site content repository

“ We needed a solution that could accommodate our expected annual growth and future needs. The fact that we can seamlessly replicate our data to a second BlackPearl system offsite for disaster recovery means our data is always available and adds another layer of protection. ”

Patrick Tsang, telecommunications engineer, Radio Television Hong Kong



BlackPearl Object Storage Disk



Radio Television Hong Kong

Established in 1982, Radio Television Hong Kong (RTHK) is the oldest and sole public service broadcaster in Hong Kong. As a department under the Commerce and Economic Development Bureau of the Hong Kong Government, RTHK's educational, entertainment, and public affairs programs are broadcast on its seven radio channels and three television channels, as well as commercial television channels.

The Challenge

Radio Television Hong Kong provides radio, TV and online broadcasting services to the public. RTHK generates around 100GB of archive data daily, amassing nearly 50TB of digital assets for long-term preservation in a single year. RTHK previously used a shared NAS storage from GBLabs as a primary data repository, also storing assets to a Dell EMC Isilon through ITMAM. Projecting an annual data growth of five percent, the company went searching for a new solution that could accommodate their future needs.

The Solution

With the help of local provider iSolutions, RTHK implemented two BlackPearl® Converged Storage Systems, each with a supporting BlackPearl® Object Storage Disk solution. To migrate their data, RTHK wrote a Java SDK software that scans a designated folder on the Isilon primary store. When they pull data from ITMAM and place it in this folder, the software automatically moves it to the Spectra architecture.



CASE STUDY: Radio Television Hong Kong

Both BlackPearl® solutions were installed next to each other for the duration of the initial integration and data migration, facilitating the necessary data replication between the units. The BlackPearls are replicated for redundancy; replication improves the availability and shareability of all data stored in their Spectra solution. After completion, one of the systems was taken to an offsite location 12 miles away for disaster recovery purposes.

Environment Snapshot

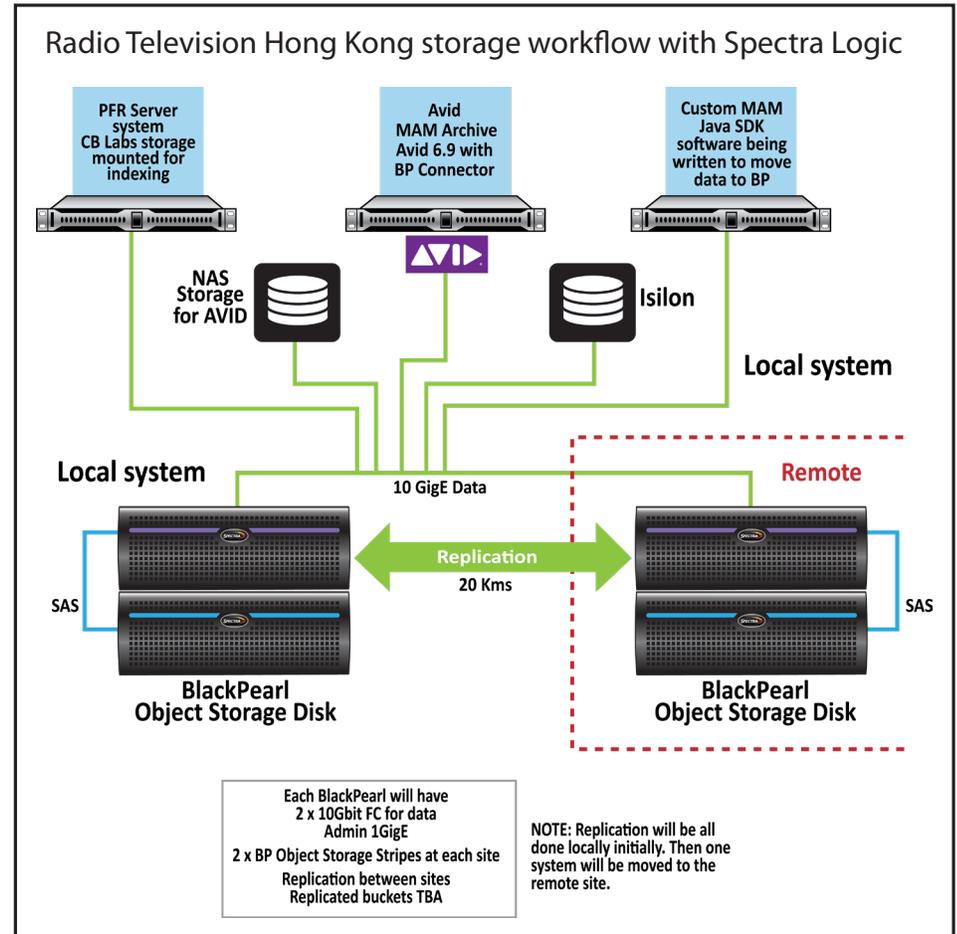
- Two Spectra BlackPearl 4U Converged Storage Systems, each with 10 x 4TB Cache Drives and 2 x 400GB Solid State Disk Drives for the database
- 10Ge network connection
- Two Spectra BlackPearl Object Storage Disk solutions, each with 48 x 8TB SATA Disk Drives and 48 x 12TB SATA Disk Drives
- Avid Interplay MAM
- PFR server
- Custom software in JavaSDK

Why Spectra?

- Ease of Management
- High availability
- Offsite replication
- Automated data movement

Solution Recap

Spectra BlackPearl Converged Storage System – BlackPearl solves the problem of costly and complex approaches to storage and data management by combining multiple standard interfaces and storage targets into a simple and affordable solution designed for diverse workflows. It allows content to move seamlessly into online/nearline disk, tape, and private and public cloud storage in a way not previously possible. BlackPearl’s hybrid cloud storage model enables users to deploy a multi-tiered storage strategy that optimizes cost efficiency and is



easy to manage. Designed for growth, the purpose-built system breaks away from traditional and legacy solutions that are based on licensing models, enabling organizations to confidently store exabytes of digital assets forever for pennies per gigabyte.

BlackPearl Object Storage Solution – BlackPearl Object Storage Disk leverages the BlackPearl Converged Storage System’s hybrid storage architecture to create the first object storage-based

disk platform that delivers maximum longevity, efficiency, and cost effectiveness with the performance of online disk. It creates an on-premise cloud with a Spectra S3 interface to ensure fast concurrent access to assets. Its spin-down disk technology intelligently powers down bands of storage when idle, extending the life of the disks up to seven years. The solution brings new life to long-term disk storage, providing affordable long-term data protection, reliability and integrity.