



CASE STUDY

Federal institute implements Spectra Logic disaster recovery solution to protect and preserve sensitive data for public health and safety

“When it comes to data storage, Federal organizations require additional security, reliability and protection to preserve sensitive information. With the help of Spectra’s deep storage products, this particular agency is able to defend their data from harm’s way by replicating copies and storing them on different media and at two different data center locations.”

Nathan Thompson, CEO, Spectra Logic Corporation



Spectra T950 tape libraries and BlackPearl deep storage gateway disk appliances



This federal institute, under the Department of Health and Human Services, is responsible for protecting public health and safety. The organization’s responsibilities consist of: 24/7 response to natural/manmade disasters, discovering patterns of disease and delivering lifesaving medicines, educating citizens to take responsibility of their own health, and performing lab research to safely detect health threats and prevent premature death, injury and disease.

The Challenge

Prior to acquiring their Spectra® BlackPearl® Deep Storage Gateway and Spectra® ArcticBlue® Disk Solution, the institute was already an existing Spectra tape library customer. They have been operating two multi-frame Spectra® T950 Tape Libraries at their main office, and multiple Spectra® T120 and T50e Tape Libraries around the country for more than a decade.

As a prominent research organization producing massive amounts of valuable data, the institute was interested in implementing a new solution that would allow them to protect and preserve their data long-term. They wanted to be able to automatically replicate their data and store it on numerous types of media, in multiple locations, for the purpose of disaster recovery. They also wanted a system that would allow them to archive the files they were no longer using, but then be able to access them again quickly when needed.

The Solution

Spectra Logic’s BlackPearl and ArcticBlue, combined with tape technology, allow the organization to digitally preserve their data through disaster recovery strategies of geographic dispersal and genetic diversity. They are currently utilizing BlackPearl to replicate data to two different sites, creating multiple copies, on different media at both locations. In the event of a natural disaster or data corruption, the institute can rest assured knowing that their data hasn’t been permanently lost. While one data center or piece of media may have been destroyed, the backup will still be protected. In addition to providing a disaster recovery solution, BlackPearl has also allowed for quick and easy access to archived files through its user-friendly, object storage interface.



CASE STUDY: Federal institute for public health and safety

Environment Snapshot

- Two T950 tape libraries at main office; one single frame and one multi-frame
- Multiple T120 and T50e tape libraries around the country
- LTO-4, LTO-5, LTO-6 and LTO-7 tape drives and media
- BlackPearl Deep Storage Gateway
- ArcticBlue Disk Solution
- Spectra BlueScale® Encryption
- Fibre channel connectivity
- EMC, Hitachi, and NetApp disk arrays
- CommVault backup software

Why Spectra?

- Disaster Recovery
- Genetic Diversity
- Easy to Access
- Long-Term Archive
- Prior Spectra Customer

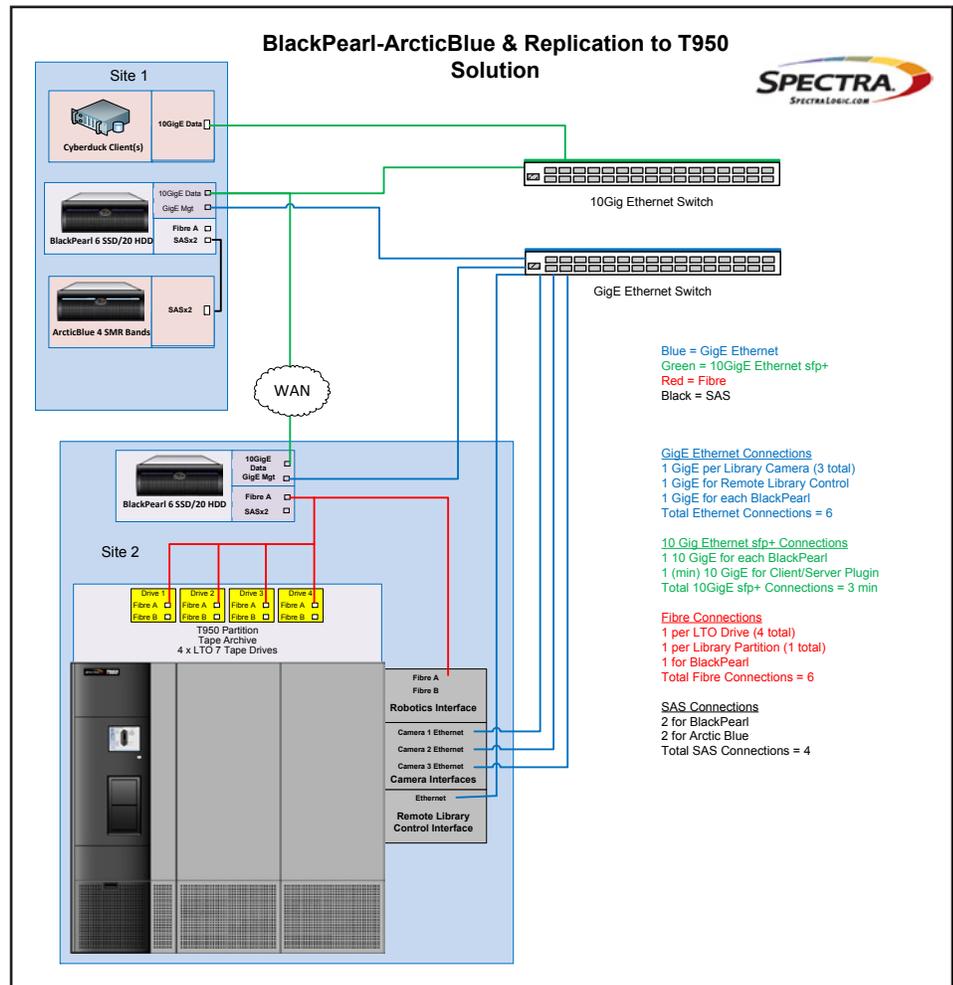
Solution Recap

Spectra Tape Library Family:

Spectra Logic has been focused on innovation in storage systems and solutions for nearly 40 years. Spectra launched its first tape library in 1995, and since that time, has built the most rugged, reliable tape systems in the industry. Today, Spectra delivers a portfolio of tape solutions that are second to none in meeting the needs of global organizations – from small to midsize establishments, to large Fortune 50 corporations and government entities. Trusted for decades by many of the world's most recognized organizations, Spectra libraries protect and preserve a vast amount of the world's data.

BlackPearl Deep Storage Gateway:

To meet the demands of data growth and long-term retention, the Spectra BlackPearl Deep Storage Gateway enables users to easily store massive amounts of data forever at virtually no cost. Designed for organizations where data is a significant part of their operations, BlackPearl allows data to move seamlessly into tape and disk storage in a way not previously possible. BlackPearl



enables users to deploy a tier of deep storage that is cost effective, easy to manage and scalable to exabytes of data. With BlackPearl's simple RESTful Spectra S3 interface and embedded media management software, organizations confidently store all of their data forever at costs as low as pennies per gigabyte.

Spectra ArcticBlue Disk Solution:

ArcticBlue leverages BlackPearl's hybrid storage architecture and Shingled Magnetic Recording (SMR) media, creating the first object storage-based disk platform that delivers maximum longevity, efficiency, and cost effective-

ness with the performance of online disk. Drive Lifecycle Management, Spectra's power down technology, extends the life of your disk archive while delivering fast access to deep storage. Engineered for data reliability and integrity, local erasure coding combined with Spectra's unique implementation of ZFS software brings new life to long-term deep storage disk. ArcticBlue creates an on-premise cloud with an S3 interface to make deep storage more accessible – all from a company that you want to do business with.