



CASE STUDY

University of Georgia preserves world-renowned library collections through implementation of disaster recovery solution from Spectra Logic

“ Spectra Logic provided University of Georgia with a fully-integrated solution that allows them to manage their data both efficiently and cost-effectively. The University’s new digital archive gives them peace of mind, knowing that their data is safe and secure. Spectra is confident in its ability to preserve the University’s library content for future generations of students, faculty and staff. ”

Nathan Thompson, CEO Spectra Logic Corporation



UNIVERSITY OF GEORGIA

About UGA

The University of Georgia (UGA) is a well-known educational institute, located in Athens, Georgia. Founded in 1785 as the United States’ first state-chartered university, UGA has more than 36,000 students and over 305,000 living alumni worldwide. UGA is organized into 17 schools and colleges, offering over 140 degree programs in a wide array of disciplines, and has three primary campuses. One of America’s “Public Ivies” and a top 10 best value in public higher education, the University of Georgia tackles some of the world’s grand challenges — from combating infectious disease and securing the world’s food supply to advancing economic growth and analyzing the environment.

The Challenge

The University of Georgia is ranked among the best research libraries in the country, housing over 5.2 million volumes and one of the nation’s largest map collections. It is home to several prestigious libraries, including the Richard B. Russell Special Collections Libraries, which is a 115,000-square-foot facility containing the Hargrett Rare Book and Manuscript Library, the Russell Library for Political Research and Studies, the Walter J. Brown Media Archives and the Peabody Awards Collection.

These libraries are composed of nearly 80 years’ worth of digital content in varying formats – including radio, audio, video, oral histories, books and individual documents. The University continues to accumulate additional media and is required to keep all files forever. The University of Georgia was in need of a certified archive solution to preserve their library content indefinitely. They also sought a new backup solution to replace their dated LTO-3 Quantum SuperLoader, and perform regular backups of administrative data.

The Solution

The University of Georgia worked with Spectra Logic to implement a disaster recovery archive strategy, to assure their library content would be protected and preserved forever. They installed two Spectra® T50e Tape Libraries, a Spectra® BlackPearl® Converged Storage System, and a Spectra® ArcticBlue® Disk Solution. Using Spectra’s S3 client developer tools, the University was able to create their own custom BlackPearl Application Program Interface



The UGA Bulldogs mascot proudly posing... and UGA students enjoying an outdoor study session.

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(API), allowing them to issue unique commands to their BlackPearl converged storage system. Additionally, BlackPearl's sophisticated Advanced Bucket Management (ABM) policy enables the University to write content to three different storage targets simultaneously, genetically diversifying its data. BlackPearl writes one disaster recovery copy of data to its offsite T50e tape library and one copy of data to its ArcticBlue disk solution. ArcticBlue provided a middle ground between their tier one storage and archive for their digital assets. It allows for the fast recall of digital assets when needed, at an attractive price point due to its spin-down drive technology. Utilizing a mix of storage mediums across different locations allows the University to not only protect its data from disaster, but also make smart tradeoffs between speed of access and overall cost of storage. They are able to store data that needs to be accessed more quickly and frequently to ArcticBlue, and less often to tape.

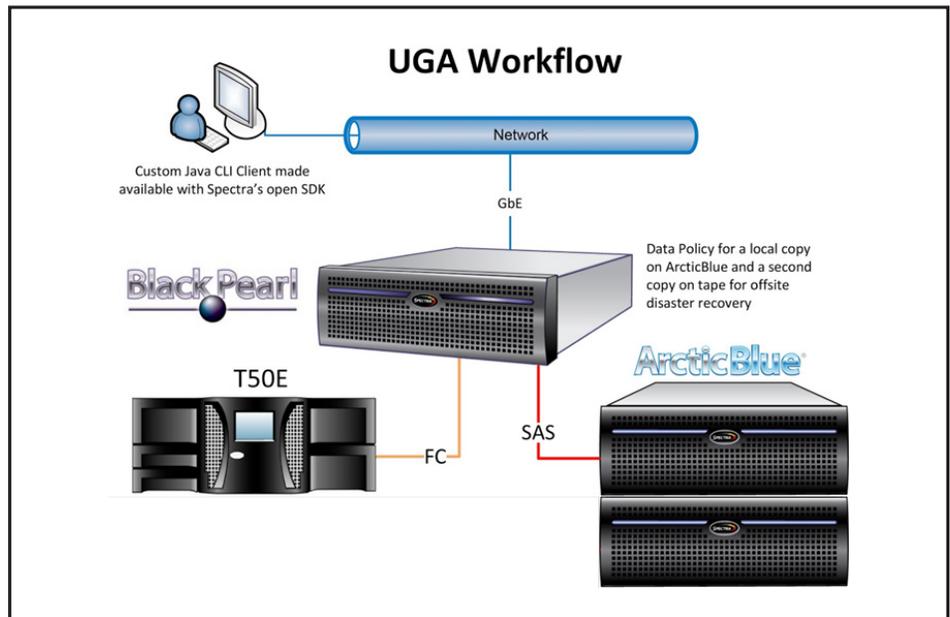
The University also utilizes their new Spectra solution to backup administrative data. Previously, they had been using a Quantum SuperLoader for administrative backups, but sought a system that was more efficient. Now, they perform incremental backups daily and full backups of over 40TB weekly, to their onsite Spectra T50e tape library.

Environment Snapshot

- BlackPearl Converged Storage System
- Two ArcticBlue Disk Solution Expansion Chassis
- 8TB Disk Drives
- Two Spectra T50e Tape Libraries – one onsite, one offsite
- LTO-7 Half-Height Tape Drives
- Spectra® Certified Tape Media
- BlackPearl® Eon Browser
- HP Data Protector Software
- GigE Connectivity

Why Spectra?

- Disaster recovery and genetic diversity
- Long-term archive
- Industry-leading density and scalability
- Total cost of ownership (TCO)
- Fully-integrated workflow
- Easy and efficient backups



Solution Recap

BlackPearl Converged Storage System – Spectra's BlackPearl Converged Storage System solves the problem of costly and complex approaches to digital preservation by combining NAS and S3-based interfaces with multiple storage targets into a simple and affordable solution. Designed for numerous concurrent workflows, BlackPearl reduces the need for expensive third-party data movers by integrating Spectra S3 with a range of certified clients and simple file movers.

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 effectiveness with the performance of on-line disk. It creates an on-premise cloud with a Spectra S3 interface to make deep storage more accessible.

BlackPearl Eon Browser -

The BlackPearl Eon Browser, a client application for Spectra's BlackPearl Converged Storage System, provides creative users with a simple tool that not only stores assets, but just as simply allows users to search and bring back files quickly. Its intuitive graphical interface facilitates the management and transfer of digital assets between any production storage or network share and the BlackPearl storage platform. With drag-and-drop ease, Eon Browser enables artists, editors and creators to search, select, group, archive, and restore their valuable assets.