



UNIVERSITY OF  
NOTRE DAME

## CASE STUDY

Notre Dame employs hybrid cloud storage platform from Spectra Logic



“Spectra Logic provided the University of Notre Dame with a modern solution that was scalable, cost-effective, and enabled extensive efficient workflows. We’ve had positive experiences with Spectra’s products in the past, making Spectra the obvious choice for our next initiative.”



Mike Anderson, Storage Systems Administrator at Notre Dame's main South Bend campus

### AT A GLANCE

#### Challenges

- Campus-wide cloud solution
- Protecting research data
- Managing multimedia content
- Archiving library and records data

#### Solution

- Deployed Spectra T950 Library
- Added Spectra BlackPearl system
- Automated storage & recovery
- Enabled easy search & access

## CHALLENGE

The University of Notre Dame had unique data management needs. The Office of Information Technologies (OIT) needed an enterprise solution for various campus clients and sought to integrate cloud technology into their storage architecture.

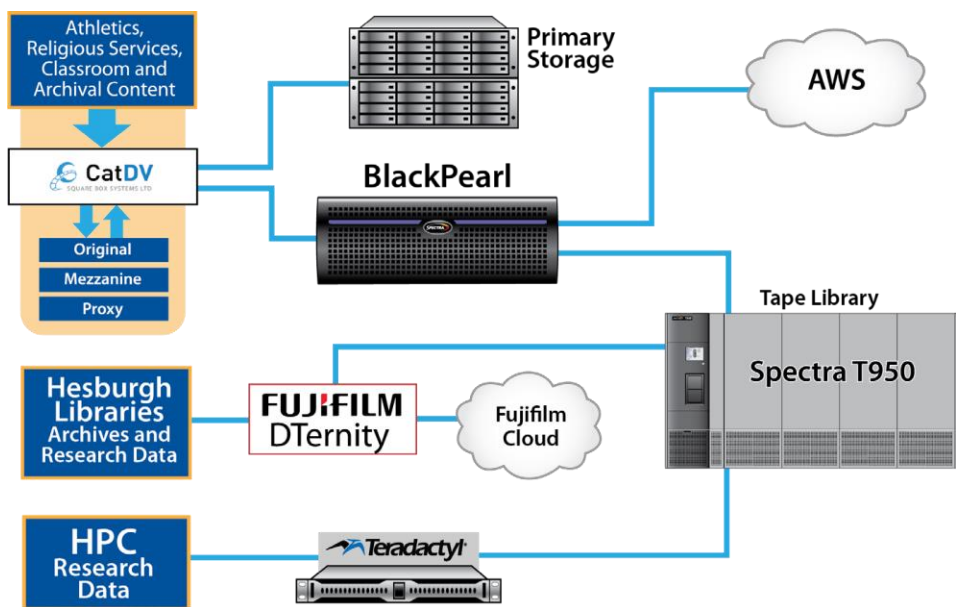
The Center for Research Computing required a solution to protect research data across hundreds of servers. Notre Dame Studios needed better management for video, audio, and live event recordings. The Hesburgh Libraries needed long-term storage for digitized materials, University records, and CurateND, the institutional repository for research data and scholarly output.

## SOLUTION

In 2014, Notre Dame consolidated its storage environment with a Spectra T950 Tape Library to back up and archive data from various departments. The T950's innovative design allows OIT to partition the library for research and media assets. It supports nearly all software for open systems tape, providing the backbone for a wide range of user needs.

Recently, they deployed Spectra BlackPearl Hybrid Storage with CatDV MAM to enhance media management. BlackPearl automates file migration, creating copies on tape and cloud for disaster recovery, while leaving a mezzanine version as the working copy. Once mezzanines are moved to tape, a proxy version remains for easy access. BlackPearl and CatDV streamline workflows and boost operational efficiency. Users can search and restore files on demand via CatDV, regardless of location.





Network Diagram for University of Notre Dame

## UNIVERSITY NOTRE DAME'S ENVIRONMENT

### SOLUTION INFORMATION

**Spectra BlackPearl** - BlackPearl was designed to provide a modern, simple portal to a multi-tier object-based storage architecture that is cost effective, easy to manage and scalable to exabytes of data. Designed for organizations where content and long-term integrity is at the core of their business, BlackPearl allows assets to move seamlessly to disk, tape and cloud storage, in a way not previously possible.

**Spectra Enterprise Tape Libraries** - Spectra enterprise tape libraries are designed for growth, as they accommodate the storage requirements of organizations in every state of their lifecycle. When data growth requires more slots than the library's current capacity, Spectra transfers the components of the existing library and puts them in a larger chassis. As data needs expand, all that changes is the outgrown frame.

#### Why Notre Dame Chose Spectra:

- Hybrid cloud capabilities
- Seamless application integration
- Long-term viability
- Industry's highest density
- Trust & longstanding relationship with Spectra

### ENVIRONMENT

- Spectra® BlackPearl® Multi-Purpose Hybrid Storage Platform
- 5-frame Spectra® T950 Tape Library
- Fourteen LTO-6 drives
- Four LTO-8 drives
- 1,600 enabled tape slots
- Spectra BlueScale® Professional
- Encryption
- ~2PB of data

### ABOUT NOTRE DAME

Founded in 1842, the University of Notre Dame is the nation's leading Catholic university and consistently ranks among the top 25 U.S. institutions. Known for its intellectual rigor, moral values, and commitment to service, Notre Dame offers 75 undergraduate majors within eight colleges, nearly 70 centers, and the renowned Hesburgh Libraries. Located near South Bend, IN., Notre Dame's campus is celebrated for its beauty and landmarks, including the iconic Golden Dome.