



# CASE STUDY

Spectra Logic's deep storage solution provides Notre Dame with the backup and archiving resources needed to be a national leader in research and scholarship

“ Spectra Logic provided the University of Notre Dame with a backup and archive solution that was both scalable and cost-effective, which were a must have in our environment. Having encountered positive experiences with Spectra's products in the past, they emerged as the obvious choice. ”

*Mike Anderson, IT Systems Manager at Notre Dame's main South Bend campus*



T950 dual frame tape library and Spectra Verde NAS Solution



Founded in 1842, the University of Notre Dame provides a distinctive voice in higher education that is at once rigorously intellectual, unapologetically moral in orientation, and firmly embracing of a service ethos. The nation and world's pre-eminent Catholic university and rated among the top 20 of all U.S. institutions of higher learning, Notre Dame is organized into four undergraduate colleges — Arts and Letters, Science, Engineering, and the Mendoza College of Business — the School of Architecture, the Law School, the Graduate School, 10 major research institutes, more than 40 centers and special programs, and the University library system.

Located adjacent to the city of South Bend, Ind., which has a metropolitan population of more than 300,000, Notre Dame is highly residential, with 80 percent of students living on campus, and also is known for the quality of its physical plant and the beauty of its campus, including the Golden Dome of the Main Building, the world's most recognized university landmark.

## The Challenge

The University of Notre Dame had several unique requirements to fulfill when managing its expansive collection of data. The first was that University Archives needed a large-scale repository, where students and staff could digitize non-digital media such as print photographs and recordings, and store their digital assets virtually forever. Students' educational records, including receipt of an academic degree, also needed to be preserved within the University Archives for the entirety of each student's life (or for eighty years). In addition to archiving, Notre Dame required a solution capable of backing up files from several different areas and departments within the university. FIM (Fighting Irish Media), needed a space to backup and store athletic video footage and media assets, while the Center for Research Computing and IT department needed a resource for backing up valuable data from the organization's hundreds of servers. This unique backup and archive solution would also be used by the University Libraries to assist in the development of CurateND, an application being developed by the university to curate research data and results.



# CASE STUDY: University of Notre Dame IT Department

## The Solution

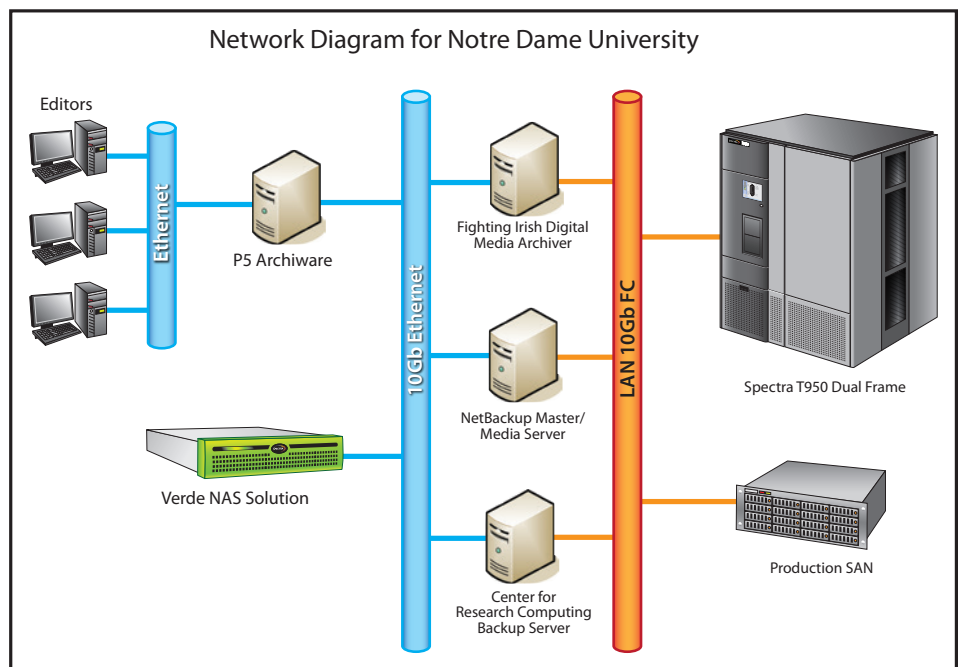
After researching several different solutions from HP, IBM and Quantum, Notre Dame selected Spectra Logic for its extended backup and archiving needs. The university purchased a Spectra® T950 Tape Library with fourteen LTO-6 tape drives, 1,150 licensed slots, and a media expansion cabinet to replace its existing Sony PetaSite and Oracle/StorageTek L700 storage systems. It also integrated a Spectra® Verde® NAS Solution into the environment as an additional backup resource.

## The Results

Notre Dame was able to consolidate its storage environment by using Spectra T950 to back up and archive data from several different departments within the university. The T950 tape library's innovative design allowed faculty and Office of Information Technologies (OIT) alike to utilize multiple partitions for various areas of research. Unlike other partitioning solutions that involve complicated and expensive external partitioning servers, network connections, and proprietary client software, Spectra's solution allowed Notre Dame to easily partition its library through the unit's BlueScale interface. One partition replaced a 3-cabinet Sony PetaSite, which the Center for Research Computing had been using to back up research data, while FIM is currently using a partition with three drives to archive media files. The University Archives and University Libraries are also utilizing the T950 to store research files for extended periods of time.

## Why Spectra?

- Industry's Highest Density
- Long Term Retention – 80+ Years of Digital Preservation
- Financial Stability
- Media Health Checks
- Drive and Media Lifecycle Management
- Assisted Self-Maintenance
- Active Archive Alliance, founding member



## Environment Snapshot:

- Spectra T950 Tape Library, 2 Frames
- Spectra Verde NAS Solution
- 14 LTO-6 Drives
- 1,150 Licensed Slots
- 3 Partitions
- P5 ArchiWare Applications
- Symantec NetBackup
- Fujifilm Dternity

## About Spectra Verde NAS Solution

The Spectra Verde NAS Solution is the optimal disk platform for the storage of mid-tier data, including primary storage offload, data staging, backup and archiving. Flexible, simple and affordable, the Spectra Verde delivers file storage for as low as 7.5 cents per gigabyte. The expandable Verde disk solution provides raw storage capacities from 48TB to 7.1PB.

## About Spectra Enterprise-Class Tape Libraries

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