



Preserving Ancient History with Western Digital Ultrastar® Data60 and Panaro Tech's Awanstor® NAS



Western Digital

Building on 50+ years of storage design experience, Western Digital's Ultrastar Data60 features key technologies for enhanced reliability. Patented IsoVibe™ reduces vibration-induced performance degradation, while ArcticFlow™ overcomes the cooling issues by introducing cool air into the middle of the platform.

Leveraging its vertical integration and decades of SSD expertise, the Ultrastar DC SN650 SSD is a mainstream NVMe SSD targeting broad deployment in datacenter IT and cloud environments.

Panaro Tech

Panaro Tech Private Limited is the brand owner of Awanstor Data Storage and Panaro Firewalls & Servers. Awanstor Data Storage solutions are designed with expansion capabilities to address petabytes of data.

Panaro Tech also provides High Performance Panaro® NX Servers and Panaro FX Firewalls. They have a highly qualified and passionate engineering team that designs all the Panaro Products that enable simple, user-friendly workflows. The Panaro support team works 24/7 to provide the best and assured services at all times.

Challenges

Sringeri Sharada is one of the four Amnaya monasteries (peethams) which was established by the 8th century scholar Jagadguru Sri Adi Shankara Bhagavatpada. It retains and upholds rich ancient Vedic history (c. 1500-900 BCE) associated with the scholar Sri Adi Shankaracharys.

All of the ancient history is stored in digital format and scattered across multiple external drives, NAS and DAS units.

The requirement was to provide a centralized storage system with a flash performance tier and disk-based storage to separate hot and cold data to balance performance and cost, and to assure there is a secondary copy of data for backup.

Solution

To address these challenges, the organization's trustees turned to the Western Digital team in India.

The solution combined Western Digital's Ultrastar Data60 Storage Platform with Panaro Tech's Awanstor NAS server. The combined solution enables Sringeri Sharada's infrastructure to meet capacity, flexibility and performance needs while remaining within budget.

The Awanstor NAS combines four high-speed Western Digital Ultrastar DCSN650 NVMe™ U.3 Gen4 drives for high-speed data processing and eight 22TB Ultrastar DC HC570 NL-SAS HDD drives for protected data archival. The system is further enhanced with the use of Western Digital's Data60 for backup and secondary storage.

The NAS server facilitates high-speed video editing and data security and serves as a scanner for digital books and ancient scriptures from the 8th century.

Results

This joint solution delivers solid performance, is easy to scale on demand without using an excessive number of rack units and provides a highly reliable storage solution based on a redundant architecture.

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"The ancient Sringeri Sharada Peetham has an illustrious unbroken Guru Parampara (lineage of Gurus) in Sanatana Dharma (Hinduism) stretching back to the 8th century philosopher-saint, Jagadguru Sri Adi Shankaracharya. Today, we have a big responsibility to preserve our multimedia content for future generations. Western Digital and Panaro Tech carefully listened to our needs and provided us with a well-thought-out solution. They were considerate of our budget and provided us with a well-priced and cost-effective solution".

Padmashree Dr. V. R. Gowrishankar

Benefits

By pairing Western Digital with Awanstor Unified NAS controller we can provide increased density, strong performance and extreme flexibility in a simple and affordable solution.

Low Total Cost of Ownership

This high-density, highly reliable solution can offer low organizational storage costs, including capital expenditure, operating costs for power, colocation, and maintenance.

Simplified Operations

By standardizing on Western Digital's Ultrastar platforms, the customer has made its storage infrastructure much easier to manage, maintain and scale in the future when needed.

Long-term Reliability

By leveraging patented technologies, which carry a rich history of innovation, this provides rock-solid reliability, keeping data safe in a high performance environment.

