

ScoutAM

A Dell OEM Engineered Solution for
Scalable Mass Storage



DELL Technologies

Unstructured data collections generated by artificial intelligence, HPC, IoT, scientific research, media, and surveillance are growing exponentially, stressing traditional storage architectures and IT budgets.

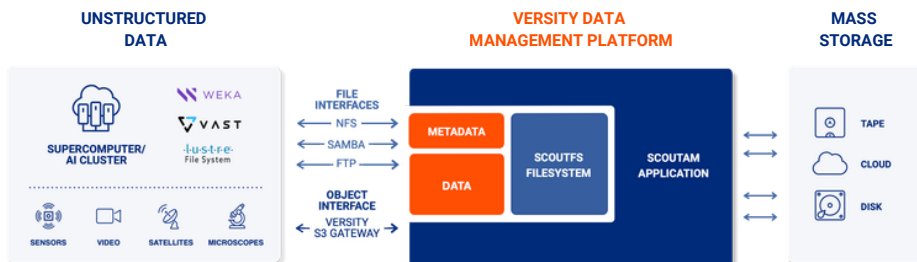
Legacy Mass Storage Systems Stifle Performance

Dell Technologies and Varsity have partnered to present a modern, scalable solution for managing and preserving petabyte-to-exabyte scale data collections with unmatched efficiency, cost-effectiveness, and sustainability. This Dell OEM-engineered solution combines Dell's world-class server and storage offerings with Varsity's next-generation mass storage platform, ScoutAM.

This turnkey solution from Dell and Varsity is a modular, fully integrated system for managing unstructured data at scale. Combining Dell's validated hardware with Varsity's ScoutAM software, it delivers high performance, cost efficiency, and seamless scalability. Customers can easily procure the complete solution through Dell Technologies or authorized resellers, benefiting from streamlined deployment, modern support, and a simplified purchasing process.

Introducing Varsity's ScoutAM

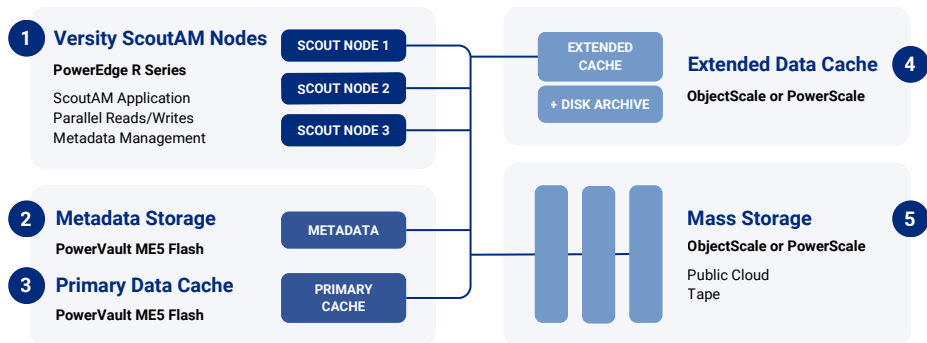
ScoutAM enables organizations to tier, manage, and preserve large collections of unstructured data in a scalable, hardware-agnostic, and cost-efficient manner for long-term sustainability. With a modern architecture and code-base written in Go, it enhances data visibility and access, streamlines risk management with a policy-driven approach, and automates data placement across configurable pools of local or cloud storage, including high-performance disk, hybrid object storage, and tape.



On-premises low-cost and sustainable glacier infrastructure for efficient unstructured data preservation, significantly reducing costs and carbon footprint.

Secondary storage for data lakes with modern, easy-to-manage cold storage functionality while reducing complexity and scalability for growing data needs.

Open, vendor-neutral alternative to legacy systems with **zero data migration** from HPE DMF, IBM HPSS, IBM TSM, Oracle HSM, and Quantum StorNext.



ScoutAM Nodes
PowerEdge R Series (1-20)



Cache Storage
PowerVault ME5 (1-5 PB)



Extended Cache
ObjectScale (1-10 PB)



Mass Storage
ObjectScale (2 PB -1 EB)

How ScoutAM Works

ScoutAM ingests data from various sources such as sensors, satellites, telescopes, spectroscopy equipment, video content, DNA sequencers, monitoring systems, and supercomputer clusters using multiple protocols including NFS, Samba, FTP, S3 Gateway, and direct transfers. Data is managed within the ScoutFS Filesystem, which handles both metadata and data storage. The filesystem supports online metadata, indexed attributes, and a scalable namespace to facilitate easy data access and management. ScoutAM employs a robust policy engine, scheduling capabilities, and parallel data movement to ensure optimal data organization and retrieval. Data can be stored across various storage mediums, including object storage, tape, and cloud, providing a flexible, scalable, and cost-effective solution for managing extensive data collections.

ObjectScale: Next-Gen Object Storage

ObjectScale provides key features supporting ScoutAM and mass storage. With ObjectScale, the solution can start small and easily expand over time by adding drives, nodes or racks. ObjectScale, the leading object storage platform from Dell Technologies, boasts unmatched scalability, performance, resilience and economics. Ranging from 120 TB to 23 PB of capacity in a single rack, ObjectScale comes in several appliance form factors including HDD and all-flash-based systems ideal for analytics and modern application workflows. ObjectScale also provides rich S3-compatibility on a globally distributed architecture, empowering organizations to support enterprise workloads such as cloud-native, AI, Gen AI, analytics applications and archiving at scale.



High performance, cloud-scale economics – manage and protect object and file data collections with a powerful, user-friendly mass-storage platform built to deliver the performance you want with the cloud-scale economics you need.



Mix-and-match storage options
Featuring ObjectScale object storage; options for Dell PowerScale (file), tape and public cloud for mass storage; Dell PowerVault for cache storage; and Dell PowerEdge for service nodes.



Turnkey engineered solution
Easy to order and deploy with all components engineered and balanced to meet performance specifications.

Dell OEM Engineered Solution

With our turnkey solution, purchasing and deployment are effortless. Designed by Dell and Versity, this integrated system combines Dell hardware with Versity's ScoutAM software for a high-performance, scalable data management platform.

Tailored to your unique requirements, this Dell OEM Engineered Solution uses modular components that can easily expand as your demands grow. Whether you're scaling up or optimizing performance, this solution adapts to your evolving needs.

Purchasing is straightforward, with the option to configure and procure both the software platform and hardware from Dell Technologies or any Dell Authorized Reseller globally. A variety of delivery, installation, and support models ensure a smooth deployment and ongoing experience, making this turnkey solution as easy to manage as it is to deploy.

Experience the Future of Mass Storage

ScoutAM is more than just a solution; it's a vision for the future of data management. It embodies a dedication to transforming unstructured data from mere storage into a strategic asset, seamlessly integrated and optimized for actionable insights. With its unparalleled cost efficiency, user-friendly operation, and open architecture, ScoutAM empowers organizations to navigate and thrive in an evolving data landscape. At Versity, we are dedicated to pushing the boundaries of what's possible, providing cutting-edge archives that adapt to today's challenges and anticipate tomorrow's opportunities. Embrace the future of mass storage with ScoutAM and lead your organization into a new era of data innovation.

Key Benefits

High Performance

- High throughput to archival storage
 - 40GB/s per 5 node cluster
- **Parallel transfer:** ScoutAM reads and writes data to mass storage devices through multiple channels per node simultaneously.
- **Customized and automated data orchestration policies** for streamlined, efficient workflow management tailored to unique organizational needs

Easy to Use

- Simple to use and easy to manage, requiring fewer resources for system administration
- **Extensive API coverage** to ease integration with third party tools and site specific workflows
- **Intuitive** interface and streamlined processes enable easy management for users with varying technical expertise
- **Open source** data formats using standard tools for seamless data handling

Reliable and Adaptable

- **High availability** even if servers are lost, with built-in failover and no need for external tools
- **Ultimate disaster recovery** directly from storage media that supports asynchronous remote replication for continuity
- Archive object directly to tape with Versity S3 Gateway
- Supports on-premises S3 storage and public cloud services

Trusted by Industry Leaders



About Us

Versity is a leading independent technology company focused on delivering innovative mass storage solutions. With a commitment to performance, scalability, and open-source collaboration, Versity empowers organizations to efficiently manage their data in a rapidly evolving digital landscape.



Worldwide consumer base managing over **2 exabytes** of data across 95 sites



Accelerated innovation driven by customer-focused feature requests and a strong, next-generation engineering team



Unrestricted access to expert guidance and **personalized support** from our highly-skilled engineering team