

Efficiently manage cloud-scale data collections with Versity and Dell ECS

Mass Storage Solution Highlights

- **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.
- **Turnkey engineered solution** – easy to order and deploy with all components engineered and balanced to meet performance specifications.
- **Versity ScoutAM software** – scalable, modular and efficient software-defined mass-storage platform.
- **ScoutAM zero data migration** – eliminating traditional migration costs and effort.
- **ScoutAM ultimate disaster recovery** – directly from the mass storage media, without any specialized software.
- **Mix-and-match storage options** – featuring ECS 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.

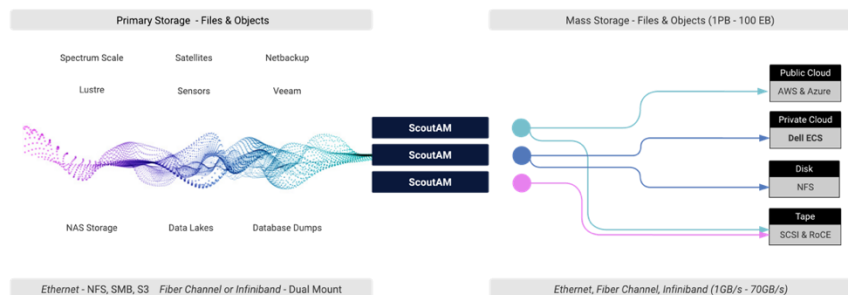
Overcome the data deluge with a comprehensive validated solution

Unstructured data collections are growing at an accelerating rate. Data generated by IoT, scientific/engineering, media and entertainment, surveillance and AI applications is stressing traditional storage architectures and IT budgets.



Dell Technologies and Versity are here to help. Together our companies provide an on-premises glacier solution to address the need for a simple, powerful tool to manage and preserve exponentially increasing collections of unstructured data.

Powered by Dell Technologies, Versity's ScoutAM mass-storage software combines with the limitless scalability of ECS object storage to enable large storage sites to operate their own infrastructure with cloud-scale cost-efficiency. Versity sites can obtain significantly lower TCO than Amazon Glacier while delivering unlimited amounts of data to end users over high-speed local networks without unpredictable egress or transaction fees and without sacrificing data autonomy.



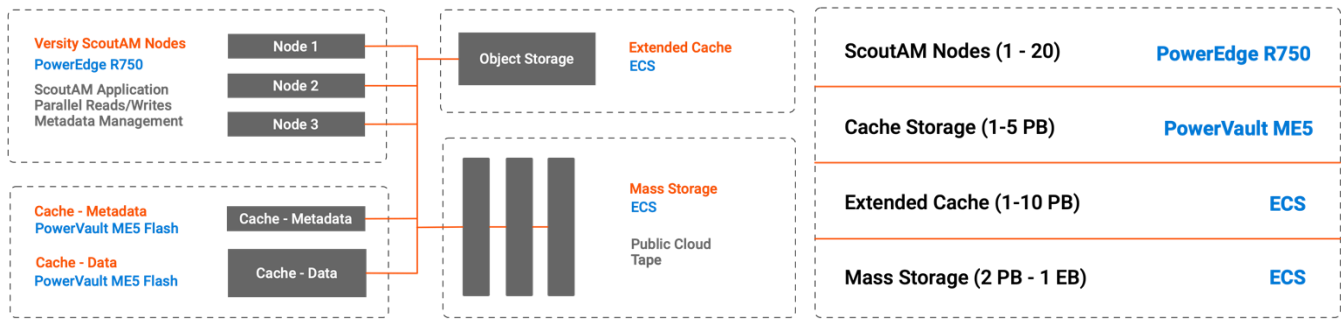
How It Works: Versity ScoutAM with Dell ECS

Versity ScoutAM: exabyte-scale data orchestration

Versity's Scale Out Archive Manager (ScoutAM) is a scalable, modular and efficient software-defined mass-storage platform for protecting and managing petabyte to exabyte-scale data collections. ScoutAM ingests file and object data from primary data sources, establishes persistent metadata records, groups data, and automatically brokers that data to a composable mix of mass storage devices and services such as public cloud, private cloud, disk and tape storage systems.

Dell ECS: enterprise-grade object storage

ECS object storage boasts unmatched scalability, performance, resilience and economics. Ranging from 120TB to 11.2PB of capacity in a single rack, ECS comes in several appliance form factors including HDD and all-flash-based systems ideal for analytics and modern application workflows. ECS also provides rich S3-compatibility on a globally distributed architecture, empowering organizations to support enterprise workloads such as cloud-native, archive, IoT, AI and big data analytics applications at scale.



Versity Mass Storage Solution Architecture and Scalability

ScoutAM features and benefits

- **Extremely scalable and modular** – Comprised of discrete capacity and performance-based building blocks. All hardware components are modular; more can be added to enhance performance or expand capacity. The highly scalable architecture accepts and moves many data streams in parallel from each node in a cluster.
- **Transparent and automatic** – Supports standard read and write workflows with a transparent interface. Users and applications can locate archival files and objects as if they were local copies by interacting with online metadata. When users drag and drop files, or applications read data, the retrieval is automatically orchestrated by ScoutAM.
- **High-performance parallel transfers** – Can read and write data to mass storage devices and services through multiple data channels on each node simultaneously. Smaller files or objects are packaged and grouped and then scheduled across channels using a round-robin algorithm. Large files or objects may be segmented and written in parallel across a configurable number of data channels or a range of data channels.
- **Extended cache** – Supports the ability to increase cache capacity by adding low-cost S3 object storage devices to augment the capacity of the primary cache. The space available on the extended cache will be fully utilized, and the least used data will be automatically evicted as newer data arrives. Pairing extended cache storage with an all-flash primary cache enables an optimal mix of performance and capacity at a lower TCO.
- **Ultimate disaster recovery** – Supports recovery of all data elements directly from the mass storage media, without the use of any specialized software. All information required to restore a data collection resides on the physical media with the data.
- **Zero data migration** – The first mass storage platform to support data formats from third party platforms including DMF, HPSS and OHSM. Format support eliminates the need for traditional costly, time-consuming data migrations.
- **Automated orchestration** – Enables creation and automatic execution of site-specific data orchestration policies.
- **Object to tape** – Capable of ingesting S3 object data through a scale out Versity S3 gateway and storing the object data to tape for long term protection.
- **High availability** – Remains available despite the loss of servers in a cluster. Depending on cluster size and the quorum definitions, ScoutAM can tolerate the loss of one or more servers with no impact on availability or service continuity. Failover is built into the platform and does not require complex external failover or HA tools.
- **Open-source format** – Open-source metadata combined with open-source data formats gives customers complete control over data collections and aligns with long-term data preservation and autonomy goals.
- **Modern API** – The platform includes extensive API coverage to support integration with third party tools and site-specific workflows. The modern GUI is API-driven.
- **Disaggregated data and metadata** – Separate data and metadata ensures that metadata is always available.

Technical support for this solution is by Versity: support.versity.com | support@versity.com | +1 844-726-8826

Take the next step

Please contact your Dell Technologies sales representative at versity@dell.com to learn more about how the solution can benefit your organization.



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