

ArcaStream: Software-Defined Scale-Out Storage

The only *data-aware* storage solution that eliminate hardware vendor lock-in, accelerates collaboration, seamlessly integrates with your research workflows and exposes the *true cost* of data retention

Key Benefits:

Powerful:

Incredible scalability in an industry-leading footprint

Flexible:

Provides global, yet centralised data storage for distributed workflows

Reliable:

Built-in data protection and active/active availability for any sized requirement

Secure:

Tight integration with common user-management systems and no-downtime security patching

Simple:

Appliance-based architecture removes the deployment complexity typically associated with software-defined solutions

Cost-effective:

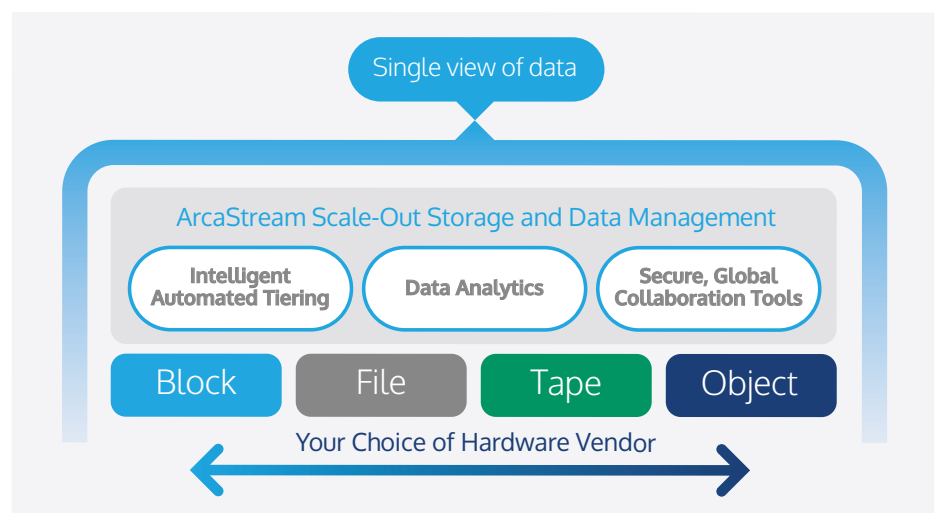
Software-based architecture that removes hardware vendor lock-in and minimises support costs

Software-Defined Scale-Out Storage:

ArcaStream's software-defined scale-out storage solutions provide flexible scalability and predictable performance, without relying on expensive proprietary hardware technology. This allows organisations with big data challenges of any size to efficiently and granularly manage expansion and retention costs as requirements change.

ArcaStream improves on traditional storage solutions by combining the performance of SAN-based technology with the usability of centralised Scale-Out NAS into a single, software-defined platform. Organisations are capable of concurrently accessing any type of data from a variety of end points (user workstations, computational servers, scientific instruments etc) without performance degradation or complicated share and staging structures.

With a software-based approach to performance and capacity scaling, ArcaStream's customers are free to choose the most appropriate disk, tape and cloud components for their requirements from a wide-range of certified components, all tightly integrated and supported by ArcaStream's professional services and support team. By providing appliance functionality without traditional appliance restrictions, ArcaStream customers are able to reduce their growth and support costs by as much as 90%.



Additional Features and Benefits

- Predictable, reliable performance from a unified IT architecture
- Built-in storage virtualisation and information lifecycle management
- Advanced replication, mirroring and data protection as standard
- Snapshots protect against accidental deletion and provide document versioning
- User definable metadata enriches data with human discoverable information
- Tape, object and cloud storage integration drives down the cost of 'cold' storage retention without sacrificing user access
- Quotas provide fair-share and chargeback capabilities to users, departments and projects
- Backup acceleration reduces data protection windows from days to minutes
- Intelligent, dynamic interconnect improves data flow efficiency and reacts to network hot spots automatically

ArcaStream Software-Defined Storage Benefits

Predictable data storage cost model

- Software-defined architecture: agnostic to hardware vendors while enhancing customer purchasing power
- Uses policy-based data management to provide 'right-priced' technology pools within the same overall namespace
- Eco-system allows seamless migration from one generation of server and storage technology to another
- Scales to multi-petabyte capacities and near-limitless performance

Shared collaborative working

- Fits to any multi-user workflow
- Enables access your assets from nearly any connected device from anywhere in the world
- Staff in all physical premises can work on their assets as if they were in the same room

Deep insight into data usage and habits

- Find out where, how often and by whom your assets are being accessed
- Identify trends in usage to make informed purchasing decisions in the future

Easy to search and access

- Automatically ingest data and associated metadata into the ArcaStream Asset Management Interface
- Strip metadata directly from file, reducing the need for human intervention when cataloguing data
- Users are provided with instant access and search of assets using relevant, human terms

Protects & Secures

- Reduces backup, archive and replication windows by a factor of 60 over traditional data protection mechanisms
- Selectively and intelligently replicate and archive data to a variety of cloud, disk and tape based storage anywhere in the world
- Encrypt assets and data communication in-flight
- Open architecture ensures up-to-the minute security updates

Embeds repository into existing applications

- Python API provides rapid application development interface into the solution for your key applications
- Directly interrogate and control the solution, data and asset metadata from in-house and third party software packages