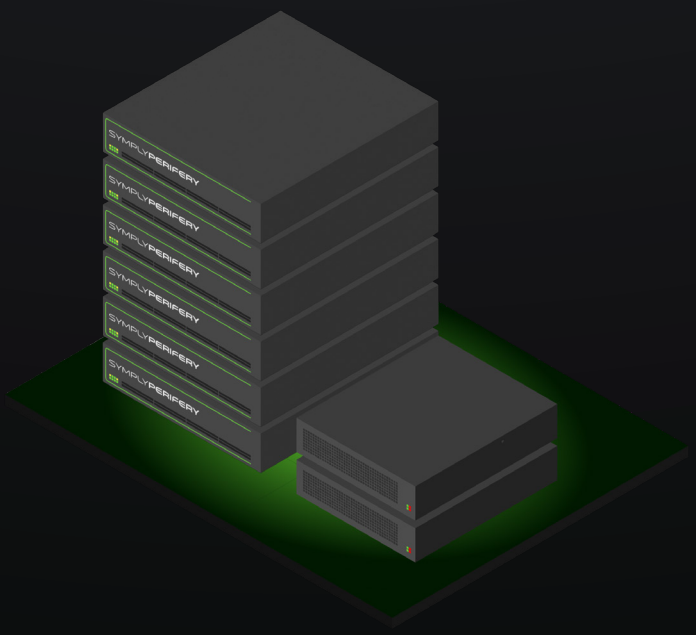
SYMPLYPERIFERY

An S3 cloud native in-facility appliance designed for content archiving



DATASHEET

THE LAST MEDIA ARCHIVE **YOU'LL EVER NEED**

SymplyPERIFERY is an S3 cloud native in-facility appliance. Created to streamline content archiving and featuring unlimited scalability, embedded application support, and public cloud connectivity, SymplyPERIFERY is perfectly optimised for media workflows. Powered by DataCore software, the appliance is built on parallel architecture with elastic content protection, enabling scaling from hundreds of terabytes to exabytes, and GB/sec of throughput as nodes scale-out in a linear fashion.

Media & Entertainment

HPC & Analytics

Life Sciences & Healthcare

Video Surveillance

Enterprise IT

Government

Storage-as-a-Service

Ransomware Detection & Recovery

WHY SYMPLYPERIFERY?

SymplyPERIFERY provides a facility-based S3 native content preservation solution that radically simplifies the ability to manage, store, and protect data while allowing fast S3/HTTP access to any application, device, or end-user. This solution integrates seamlessly into existing workflows, transforming assets into flexible content, making them immediately accessible for remote collaboration, on-demand access, monetization, or long term preservation.

Elastic content protection features including advanced erasure coding, replication, and data integrity checking mean you can control the durability of your content at the level of the cluster right down to individual buckets. With SymplyPERIFERY you'll never have to take your system offline. And you'll never have to migrate data again. Facilities can non-disruptively expand capacity as their needs grow: new nodes can be added to the cluster in minutes with SymplyPERIFERY auto-rebalancing on the fly. Ageing hardware can be replaced and decommissioned with a simple click of a button and with no interruption of service. Think of your content as a cloud of data, safely and securely held in place, with a slowly flowing river of hardware underneath.

EMBEDDED APPLICATIONS

SymplyPERIFERY includes S3 embedded application support for best-of-breed workflow-centric media management tools including axle.ai, DataCore FileFly, StorageDNA® DNAfabric, and SymplyNEBULA Bridge. These hand-picked applications work together to provide an unmatched content preservation experience. No matter the type of workflow or where content is created or stored, SymplyPERIFERY offers a simple and complete solution with 100% cost predictability.

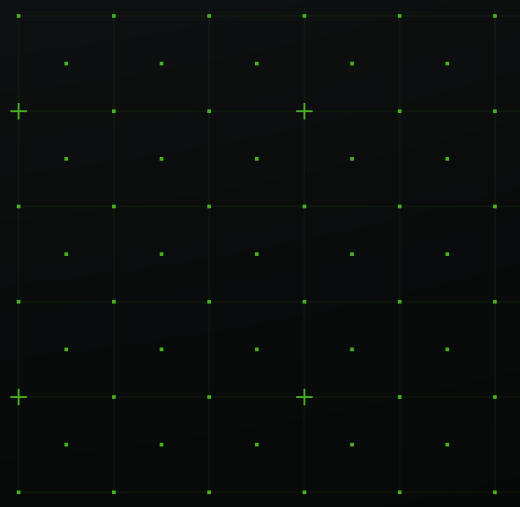
LONG-TERM PROTECTION AND PROVEN RESILIENCE

Organisations that deploy SymplyPERIFERY benefit from the highest levels of data protection thanks to Erasure Coding. This method assures greater resilience, availability, and durability versus using RAID.

RAID is used to protect against one or maybe two disk failures. However, with today's high-capacity disks, recovery can take days or even weeks in traditional RAID systems.

Erasure Coding protects content by breaking the data into pieces that are then encoded with redundant parity information. These pieces are then distributed across multiple disks in multiple nodes to provide resilience to both disk *and* node failures.

SymplyPERIFERY's Elastic Content Protection provides true flexibility for maintaining data durability and space utilisation at the level of the cluster and even down to individual buckets. In addition, a built-in health processor continually checks for failed hardware, bit rot, replica or erasure coding anomalies, and network problems to provide ultimate peace of mind.



FEATURES & BENEFITS

- S3 native interface provides easy integration into existing workflows and support for hundreds of applications. No need to change workflows.
- Optional embedded applications for Media & Entertainment and other unstructured data workflows providing inbuilt strategies for backup, archive, data migration, and Ransomware Detection.
- Easy management with Web UI, comprehensive API, with local and global metrics providing real-time monitoring
- Support account quotas to easily manage capacity at a domain and/or bucket level
- Elastic Content Protection provided by a combination of erasure coding and replication for the highest levels of data durability and flexibility, optimised for both small and large objects.
- Scales to billions of objects and exabytes of capacity
- Synchronous or asynchronous replication between clusters for collaboration and/or DR purposes
- Easily add additional capacity, manage hardware refresh with self-managing and self-healing architecture
- Enriched metadata providing enhanced content search, access, and retrieval, with the ability to stream data directly from the archive layer
- Supports multi-tenancy, with comprehensive audit reports to support SaaS business models
- Active Directory and SSO support with quotas, and lifecycle policies
- Supports Partial File Restore: video files can be clipped and delivered directly from the appliance
- Maximum security: content is secured with encryption inflight and at rest, including Object Immutability (WORM/object locking), Object Versioning and Audit Logs
- Replicate content to public cloud for enhanced data durability and disaster recovery
- Reduces storage costs and improve data durability, with archiving to LTO tape
- Darkive enables spin-down of hard disks within the nodes to reduce power consumption of the cluster.

SPECIFICATION	SA1R-XA-576	SA1R-HA-576	SA1R-HA-864	SA1R-HA-1712	SA1R-HA-3424
Rack Units	5	6	6	10	19
Storage Node Capacity	144 TB	144 TB	216 TB	216 TB	216 TB
Raw Capacity[1]	576 TB	576 TB	846 TB	1,712 TB	3,424 TB
EC 4+2 Capacity[2]	348 TB	348 TB	547 TB	1,094 TB	2,188 TB
Max Capacity	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
25G Network Ports	12	14	14	22	40
Management Ports	5	6	6	10	19
Software Subscription / Hardware Warranty	3 or 5 years	3 or 5 years	3 or 5 years	3 or 5 years	3 or 5 years
Client Protocols	S3, HTTP, NFS v4.1, RESTful API	S3, HTTP, NFS v4.1, RESTful API	S3, HTTP, NFS v4.1, RESTful API	S3, HTTP, NFS v4.1, RESTful API	S3, HTTP, NFS v4.1, RESTful API
Storage Node Dimensions (H x W x D)	43 x 447 x 940 mm 1.7 x 17.6 x 37"	43 x 447 x 940 mm 1.7 x 17.6 x 37"	43 x 447 x 940 mm 1.7 x 17.6 x 37"	43 x 447 x 940 mm 1.7 x 17.6 x 37"	43 x 447 x 940 mm 1.7 x 17.6 x 37"
Storage Node Weight	22.9 kg 50.5 lb	22.9 kg 50.5 lb	22.9 kg 50.5 lb	22.9 kg 50.5 lb	22.9 kg 50.5 lb
Controller Node Dimensions (H x W x D)	44 x 437 x 597 mm 1.75 x 17.2 x 23.5"	44 x 437 x 597 mm 1.75 x 17.2 x 23.5"	44 x 437 x 597 mm 1.75 x 17.2 x 23.5"	44 x 437 x 597 mm 1.75 x 17.2 x 23.5"	44 x 437 x 597 mm 1.75 x 17.2 x 23.5"
Controller Node Weight	12.5 kg 27.5lb	12.5 kg 27.5lb	12.5 kg 27.5lb	12.5 kg 27.5lb	12.5 kg 27.5lb
Max. Power Consumption	2,710W	3,357W	3,357W	5,422W	10,197W
Max. BTU/hour[3]	9,201	11,406	11,406	18,402	34,599
Power Supplies	110-240 VAC Platinum Rated	110-240 VAC Platinum Rated	110-240 VAC Platinum Rated	110-240 VAC Platinum Rated	110-240 VAC Platinum Rated
Operating Temperature	10°C ~ 35°C 50°F ~ 95°F	10°C ~ 35°C 50°F ~ 95°F	10°C ~ 35°C 50°F ~ 95°F	10°C ~ 35°C 50°F ~ 95°F	10°C ~ 35°C 50°F ~ 95°F
Operating Relative Humidity	8% to 90% (Non-Condensing)	8% to 90% (Non-Condensing)	8% to 90% (Non-Condensing)	8% to 90% (Non-Condensing)	8% to 90% (Non-Condensing)

1. When referring to storage capacity, 1 MB is equal to one million bytes, 1 GB is equal to one billion bytes, 1 TB is equal to 1,000 GB (one trillion bytes), and 1 PB is equal to 1,000 TB.

2. Usable capacity is based on EC 4+2. Other EC options are available. Usable capacity will vary from the raw capacity due to object storage methodologies and other factors.

3. System power consumption may vary based on the workload and environment. This estimate is usually around 10% to 15% higher than the actual power usage. For reference only.

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