



The Original Innovator  
of the iSCSI Protocol

# STONEFUSION & SCVM

## THE MOST VERSATILE ENTERPRISE STORAGE OPERATING SYSTEM

StoneFusion & SCVM are 8th generation storage OS built to simplify data storage for enterprise workloads and help build consolidated, efficient and cost-effective data storage infrastructure.

With our innovative storage OS, enterprise users can provision NAS, SAN, and unified NAS + SAN volumes, S3 OBJECT STORAGE on physical, virtual and cloud platforms to cater to a variety of enterprise use-cases and applications. The storage software also enables users to integrate a number of data services to ensure full utilization of available storage space and effective management of provisioned storage resources.

## STONEFUSION CAN BE INSTALLED IN MULTIPLE ENVIRONMENTS

### CLOUD OBJECT STORAGE



ANY S3 CLOUD

### ENTERPRISE SERVER



  
**Hewlett Packard  
Enterprise**

**DELL**EMC

### PHYSICAL BARE METAL SERVER



## SCVM IS COMPATIBLE WITH MANY DIFFERENT HYPERVISORS

vmware



Microsoft  
Hyper-V

CITRIX



KVM

OS SUPPORTS NFS, CIFS/SMB, iSCSI, S3 OBJECT  
STORAGE and FIBRE CHANNEL STORAGE PROTOCOLS

# ENTERPRISE FEATURES & DATA SERVICES OF STONEFLY STONEFUSION & SCVM

## Immutable Delta-Based Snapshots

Protect mission-critical workloads from ransomware attacks, virus, rogue applications, malware, accidental and malicious deletion & other similar threats.

## Secure Mission-Critical Workloads with Built-in Veeam Agent for Backup

The latest version of StoneFusion & SCVM introduced Veeam agent as a built-in feature. Build a consolidated storage with our storage OS and leverage the built-in Veeam agent to back up mission-critical workloads.

## Data Deduplication

Optimize storage space consumption for NAS and SAN, reduce storage footprint and enhance data storage efficiency.

## Thin Provisioning (iSCSI only)

Configure larger LUNs and make the most of your available storage space with built-in thin provisioning capabilities.

## WORM (Write-Once Read-Many) Storage

Provision immutable policy based WORM storage repositories for NAS workloads & comply with a variety of compliance regulations such as HIPAA, FedRAMP, FISMA, etc.

## Sync & Async Replication

Replicate NAS and SAN volumes, and VMs to on-site or offsite physical servers or cloud-based storage repositories. Configure real-time replication for instant failover and fallback or schedule replication jobs.

## Ransomware, Virus & Malware Detection & Removal

Leverage built-in data security features that automatically detect and remove ransomware, virus & malware.

## Flash Cache – Storage Caching (iSCSI only)

Configure frontend cache and optimize the read and write (IOPS) speeds of your enterprise storage solutions.

## Advanced Encryption

Secure important business data with state-of-the-art AES 256-bit encryption technology for data at rest and SSL/TLS tunneling for data in transit.

## Automated Storage Tiering (NAS only)

Define policies and automatically transfer data between performance tiers and cost-effective data retention tiers for seamless and efficient data management.

## Cloud Connect to Public & Private Clouds

Build a hybrid solution by integrating Azure, AWS, StoneFly private cloud or any other S3 compatible cloud storage with your infrastructure.

## Erasure Coding

Distribute data across drives and appliance nodes (if available) and build a highly available storage system with built-in erasure coding.

## Self-Healing Storage

Ensure data integrity & high availability for important business data with self-healing features that prevent data loss due to data corruption.

# COMMON STONEFUSION & SCVM USE-CASES

## Repurpose Unused & Available Data Center Storage Space

StoneFly storage OS enables users to effectively repurpose unused storage space and provision virtual NAS, SAN and unified NAS + SAN storage volumes without any additional hardware. Moreover, users can leverage a number of data services to enjoy a higher performance and cost effective data storage experience. With our storage OS, users can enhance the Total Cost of Ownership (TCO) and Return on Investments (ROI) of their data center infrastructure.

### Seamless Cloud Integration

StoneFly storage OS, StoneFusion & SCVM, have built-in cloud connect capabilities enabling users to integrate Azure, Amazon S3, StoneFly private cloud and other S3 compatible clouds with their onsite infrastructure; thereby facilitating the setup of hybrid storage and/or hybrid backup solutions. The standalone storage OS software enables cloud integration and StoneFly also offers cloud storage gateway appliances that facilitate frontend cloud caching and cloud integration.

### Configuring Enterprise Storage Clusters

Set up iSCSI port teaming and configure storage clusters for enhanced high availability and business continuity with StoneFly storage OS. With data services such as multi-site replication, failover and failback users can build a highly reliable and fault-tolerant infrastructure for mission-critical enterprise workloads.

### Recommend Resources for SCVM Installation

- ★ CPU: 4 vCPUs
- ★ RAM: 8GB (Reserved)
- ★ Hard Disk: 32GB

### Compliant & Immutable Storage Provisioning

Provision immutable WORM (Write-Once Read-Many) storage tiers for enhanced data protection and comply with a number of industry regulations. With StoneFly's enterprise storage OS, users can also configure delta-based immutable storage snapshots to prevent data loss and disruption due to ransomware attacks and accidental/malicious deletion.

### Legacy Infrastructure Modernization

Modernize your legacy infrastructure with state-of-the-art data services and features by installing StoneFly's patented storage OS on your physical servers.

### Repurpose Unused Storage Space with StoneFly Storage OS

- ★ Virtual NAS Volumes (vNAS)
- ★ Virtual SAN Volumes (vSAN)
- ★ Virtual Unified NAS + SAN Volumes

# ABOUT STONEFLY, INC.

## The Beginning

StoneFly's journey started with the creation of the iSCSI storage protocol and the registration of the domain name "iscsi.com" in March 1996. Headquartered in Silicon Valley (Hayward, California), StoneFly was among the first to manufacture and ship iSCSI storage appliances in 2002. Ever since then, StoneFly has contributed in making the iSCSI protocol into the globally standard storage protocol used by industry professionals across the globe.

## Our Vision

StoneFly was founded with the singular vision of delivering simple and affordable enterprise-class data management solutions to SMBs, SMEs, and large organizations worldwide.

## StoneFly Storage OS Patents as Recognized by United States Patent & Trademark Office

- ★ 7302500
- ★ 7555586
- ★ 7558885
- ★ 8069292

## Diverse Range of Enterprise Products – Physical Servers & Cloud-Based Solutions

This vision has guided innovation at every step of the way and enabled StoneFly to introduce several enterprise-grade storage solutions such as NAS, SAN, Unified (NAS, SAN and Object), and Hyper-converged Infrastructure (HCI). StoneFly also stepped into the backup and disaster recovery market with purpose-built unified server and storage hyperconverged backup solutions capable of delivering reduced RTPOs for enterprise workloads.

With more than two decades in the industry, StoneFly has now built a wide range of enterprise products and solutions that extend beyond physical solutions and also include serverless and cloud-based offerings. Our strategic technology partnerships with Veeam, Azure, Amazon, and other industry leaders has enabled us to offer cloud storage, cloud backup, cloud storage gateways, and data migration solutions to our customers worldwide.

## MEMBERSHIPS

LONGTIME MEMBER OF THE  
STORAGE NETWORKING  
INDUSTRY ASSOCIATION



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STORAGE NETWORKING  
INDUSTRY ASSOCIATION



# OUR PARTNERS

STONEFLY IS PROUD TO HAVE LONGSTANDING PARTNERSHIPS  
WITH INDUSTRY GIANTS

The Veeam logo is displayed in a bold, green, sans-serif font.

- ★ Veeam Technology Alliance Partner
- ★ Veeam Cloud Service Provider (CSP)

The VMware logo is displayed in a white, lowercase, sans-serif font.

- ★ VMware TAP Advanced Partner
- ★ VMware Professional Solution Provider

The Azure logo features a white stylized mountain icon followed by the word "Azure" in a white, sans-serif font.

- ★ Certified Microsoft Azure Marketplace Partner
- ★ Microsoft Cloud Solution Provider (CSP) Partner
- ★ Microsoft Cloud Solution Provider (CSP) Partner

The AWS logo consists of the lowercase letters "aws" in a dark blue, sans-serif font, with an orange curved arrow underneath.

- ★ Amazon AWS Technology Partner