



Voyager Scalable IP SAN appliance



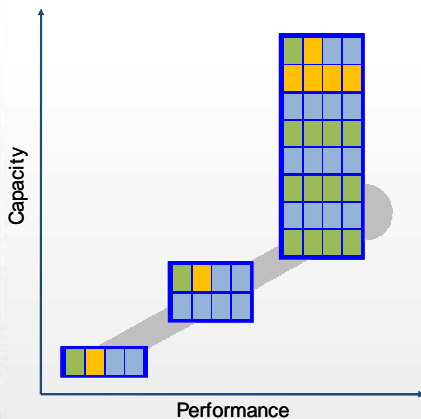
Fault-tolerance and Scalability

StoneFly's Voyager Series of Virtualized IP SAN Appliances offer enhanced redundancy, scalability, availability and performance. Voyager's Scalable architecture brings the flexibility to start small, and scale up to 100s of TeraBytes of Tiered (SATA, SAS, and SSD) storage. The cornerstone of the Voyager is the award winning StoneFusion IP SAN operating system. The Voyager's high-performance storage subsystem offers redundant, active/active connectivity for appliance redundancy and increased system performance. Additionally the Voyager offers cost-effective expansion via optional Expansion Units.

Tiered Storage

SATA	SAS	SSD	SSD
SATA	SAS	SSD	SSD
SATA	SAS	SSD	SSD
SATA	SAS	SSD	SSD

Scale up capacity and performance...



Stonefly Voyager Appliance	 Base Unit Expansion Unit	
Host Interface (iSCSI)	Standard: 6x1Gb Optional: 10x1Gb, 2x, 4x optical 10Gb, 4x copper(CX4, SFP+) 10Gb	
Hot Swap Drives	16 SATAII, SAS, SSD	16 SATAII, SAS, or SSD per Unit Scale up to 256 drives
SATA Capacity Per Unit (Raw)	½ populated: 8, 16TB Full: 16, 32TB	½ populated: 8, 16TB Full: 16, 32TB
SAS Capacity Per Unit (Raw)	½ populated: 1.1,2.4,3.6,4.8TB Full: 2.3,4.8,7.2,9.6TB	½ populated: 1.1,2.4,3.6,4.8TB Full: 2.3,4.8,7.2,9.6TB
SSD Capacity Per Unit (Raw)	½ populated: 512GB Full: 1024GB	½ populated: 512GB Full: 1024GB

Scalable / Redundant IP SAN Appliance

- iSCSI Based Storage Provisioning Appliance
- Active/Active IP Storage (High availability multi-node cluster)
- Scalable up to 256 drives
- Horizontal or vertical scalability
- Host or volume load balancing
- Gigabit and 10Gb iSCSI port teaming, failover, and load balancing
- HW Raid 0,1,5,6,10,50,60 with Battery backup

- Campus mirroring (iSCSI mirroring)
- Optional Asynchronous Replication/Mirroring (CDP) with delta transfer and schedules
- Optional Volume based encryption (AES 256)
- Comprehensive performance reporting and statistics
- Online, no downtime software upgrade

High Performance

- Active-Active simultaneous block level access to storage
- StoneFusion Virtualization Cluster Appliance utilizing up to 16 virtualization processing cores with 2GB of DATA Packet and command queuing cache (Patented)
- Jumbo frame support
- SAS/SATA performance tuning (Virtually move storage pools between SAS and SATA)

Advanced Features

- Advanced Copy-on-write, delta based Snapshot technology with:
 - Read/Write snapshots
 - Scheduling and Rollback
 - Stonefly VSS agents
- Synchronous mirroring

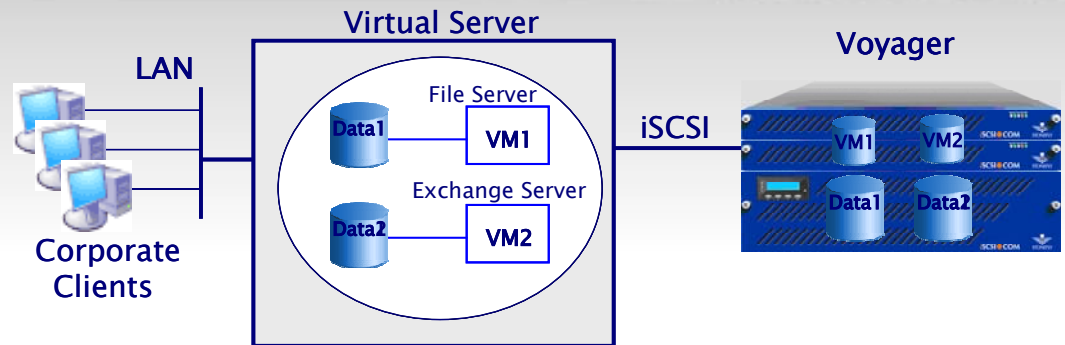
Ease of use



- Web based Intuitive User Interface
- No downtime volume or storage expansion



Virtual storage for Virtualized environments

- VMWare Certified
- Xen Certified
- Microsoft HyperV
- Virtual Iron



	Base Voyager	Expansion Unit
Physical specification		
Form Factor	5U, 19-inch Rackmountable	3U, 19-inch Rackmountable
Dimensions (HxWxD)	8.6" x 19" x 25.6" (217mm x 485mm x 650mm)	5.2" x 19" x 19.8" (131mm x 482.6mm x 504.3mm)
Package Dimensions (HxWxD)	Two (7.75" x 23" x 32.5") (197mm x 586mm x 828mm) One (16.7" x 22.3" x 30.4") (423mm x 567mm x 772mm)	16.7" x 22.3" x 30.4" 423mm x 567mm x 772mm
Package Weight	Fully populated : 204.7lbs (92.8Kg) ½ populated : 190.7lbs (86.5Kg)	Fully populated : 93lbs (42.18kg) ½ populated: 79lbs (35.8kg)
Power requirements	6 Power supplies/cords 100VAC@25A, 240VAC@12.5A, 50-60Hz	2 Power supplies/cords 100VAC@ 9A, 240VAC@ 4.5A, 47-63Hz
Temperature	Operating: 10° to 35°C (50°F to 95°F), Non-operating: 40° to 60°C (-40°F to 149°F)	
Relative Humidity	8 to 90%, non-condensing	

THE STONEFLY ADVANTAGE

StoneFly is one of the earliest vendors in the iSCSI space, designing its products during the first wave of iSCSI. As a result, StoneFly customers have been deploying StoneFly's since 2002. StoneFly's cost-effective IP SANs offer key features including active/active components for high availability, patented storage virtualization, snapshots, encryption, and asynchronous replication, and synchronous mirroring.

SOLUTIONS

StoneFly's IP SANs are integral to storage consolidation efforts, tiered storage installations, server virtualization implementations, email archiving initiatives, layered disaster recovery, and business continuity planning.

StoneFly, Inc.
www.StoneFly.com
www.iSCSI.com

Toll Free: 888.786.6335
 Phone: 510.265.1616
 Fax: 510.265.1565

Headquarters
 21353 Cabot Blvd
 Hayward, CA 94545

San Diego Office
 6191 Cornerstone Court, #105
 San Diego, CA 92121