



Voyager Scalable IP SAN appliance



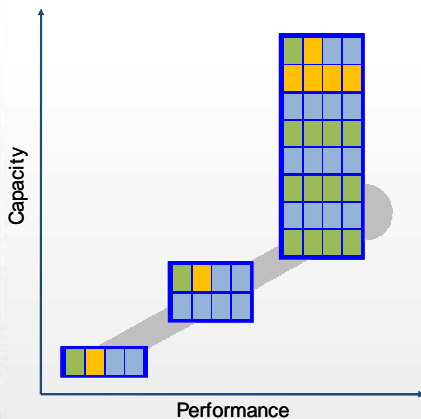
Fault-tolerance and Scalability

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 10Gb (Copper, Optical, CX4, SFP+)	
# of Hot Swap Drives SATA, SAS, SSD	½ Populated: 8 Full: 16	½ populated: 8, Full: 16 Scale up to 256 drives
SATA-3/6G Capacity (Raw-Terabytes)	½ populated: 8, 16 Full: 16, 32	½ populated: 8, 16 Full: 16, 32
SAS-6G-15K Capacity (Raw-Terabytes)	½ populated: 2.4, 3.6, 4.8 Full: 4.8, 7.2, 9.6	½ populated: 2.4, 3.6, 4.8 Full: 4.8, 7.2, 9.6
SSD Capacity (Raw-Gigabytes)	½ populated: 512, 1024 Full: 1920, 3840	½ populated: 512, 1024 Full: 1920, 3840
Raid Levels	0,1,5,6,10,50,60 with battery	

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

Advanced Features

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

- 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

- 6G Drive technology
- Active-Active block level access to storage utilizing multiple virtualization processing cores with 8GB of DATA Packet and command queuing cache (Patented)
- Jumbo frame support
- SAS/SATA/SSD Storage Tiering (Select your volumes from SAS, SATA, or SSD pools)

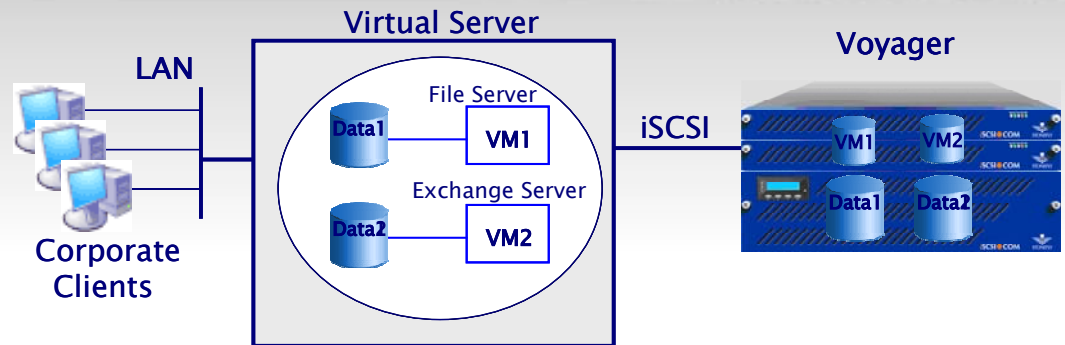
Ease of use



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



Virtual storage for Virtualized environments

- VMWare Certified
- Xen Certified
- Microsoft HyperV
- KVM



	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.

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