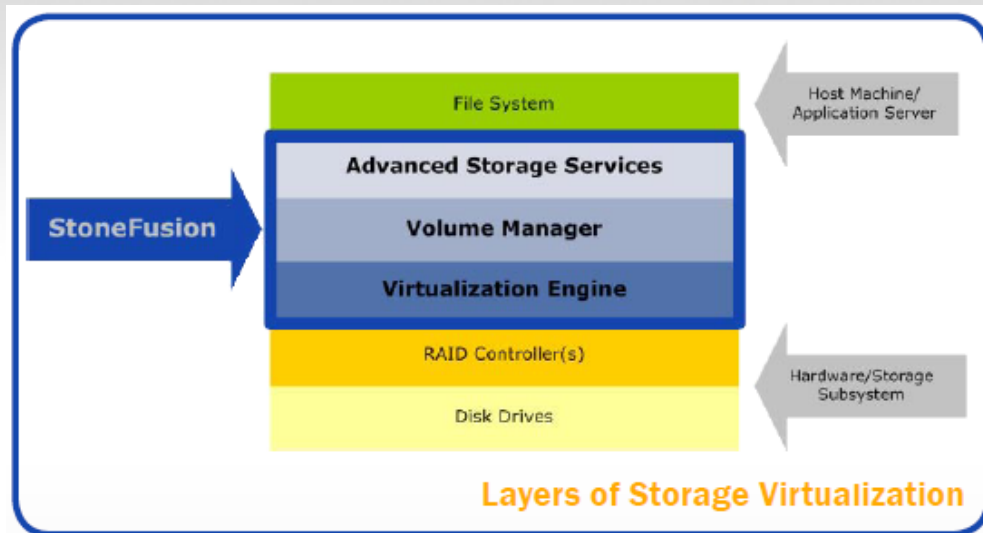
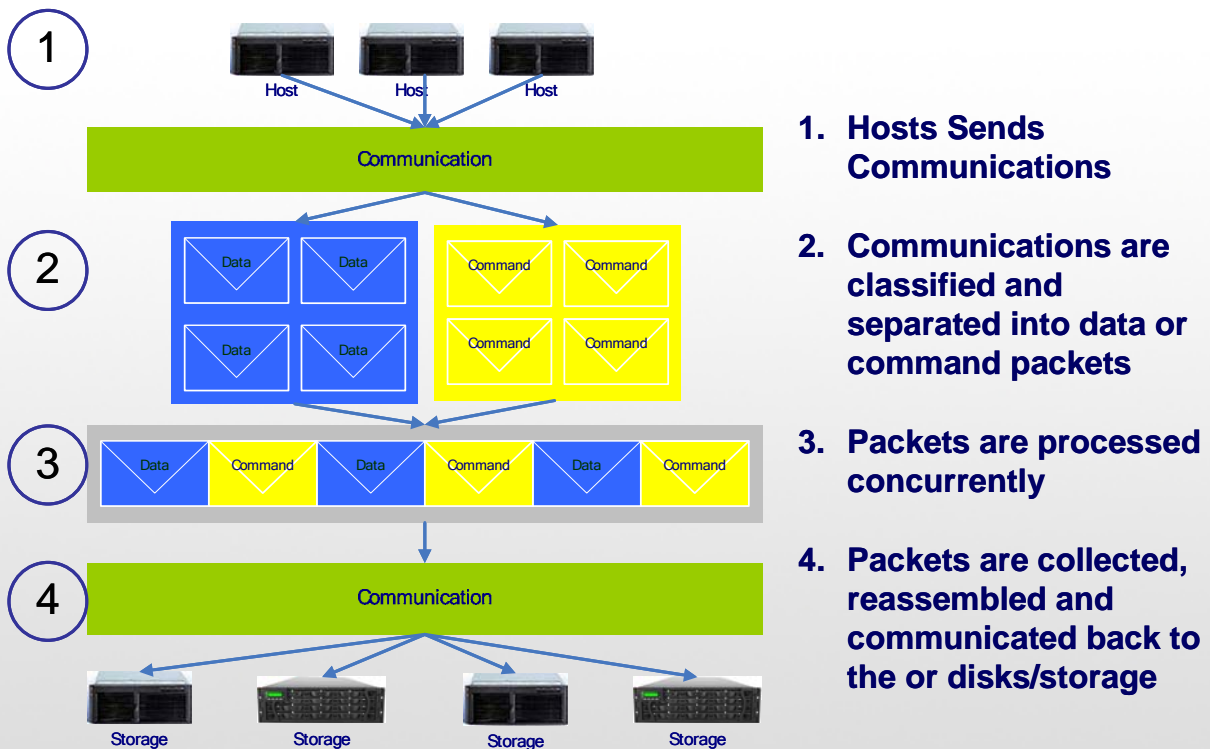


StoneFusion® Technology Overview



StoneFusion®, the engine that drives StoneFly's Intelligent IP SANs

The award-winning StoneFusion® Network Storage Platform (NSP), StoneFly's patented storage networking operating system architecture, brings in block level storage intelligence to the IP network core, StoneFly's IP SANs deliver all the benefits of managed SANs: increased storage utilization through resource consolidation, storage provisioning, centralized access control, volume management, and advanced storage services including Active/Active clustering, mirroring, replication, encryption, snapshots, and Thin Provisioning. At its core, StoneFusion virtualizes physical storage resources into virtual volumes and enables advanced storage functions in a virtual network layer. StoneFusion is the foundation of all StoneFly IP SAN product lines. With StoneFly the power of IP SANs is at your fingertips.



StoneFusion® Differentiators and features

- ◆ Fully Active/Active Clustered storage
- ◆ Thin Provisioning
- ◆ StoneFusion® software deployed on Standard x86 / Intel Platforms
- ◆ Leverages off-the shelf, Best-in-Class Hardware for Adaptable Solutions
- ◆ Tightly coupled with Linux Internals including I/O
- ◆ Result: Broad Compatibility, High performance, Quick Product Development
- ◆ Advanced Copy-on-write snapshots
 - Read/Write snapshots
 - Advanced scheduling
 - Stonefly VSS agent available
- ◆ Advanced mirroring
 - Synchronous mirroring
 - Campus mirroring (LAN/WAN) (iSCSI mirroring)
 - Asynchronous Replication/Mirroring with delta based transfer and schedules
- ◆ Comprehensive enterprise wide performance reporting and statistics, call home, SNMP, etc.
- ◆ Over ½ million lines of code and growing
- ◆ Multi-Gigabit or 10Gb (CX4 or SFP+) support
- ◆ Tiered Storage (SATA, SAS, SSD) support
- ◆ Support for all Virtualization environments
- ◆ iSCSI port teaming, failover, and load balancing
- ◆ Multi-box management
- ◆ Horizontal or vertical scalability
- ◆ Wire speed Performance
- ◆ Volume based encryption (AES256)
- ◆ Dynamic / on-demand, no downtime volume or storage expansion
- ◆ Easy to use, Web-based User Interface
- ◆ Patented I/O Processing in iSCSI Target
 - Conventional Storage Processing:
 - Wait for complete I/Os before beginning processing
 - Processes complete I/Os
 - Transmits complete I/Os
 - Stonefly Approach:
 - Starts processing while I/O is in process
 - Virtualization engine classifies communications to route them efficiently over the network
 - Decreases latency
 - Eliminates I/O bottlenecks
 - Operates seamlessly behind the scenes
 - Benefits: Efficient, concurrent processing, lower latencies

