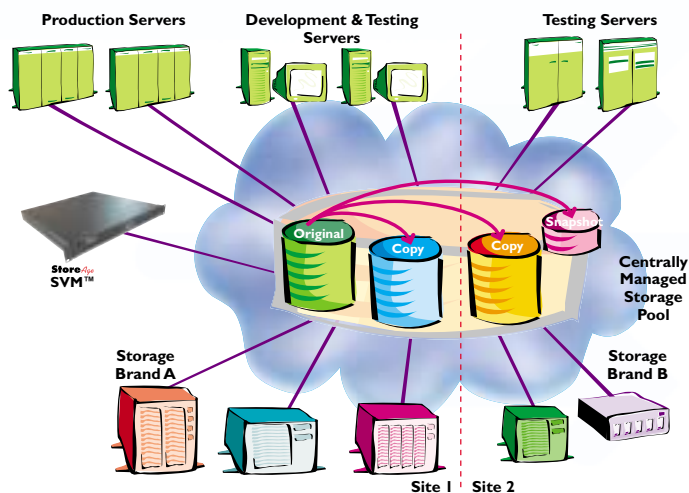


Accelerated  
Testing



## Accelerated Application Testing

StoreAge solutions accelerate the development, testing and delivery of software by allowing real-time testing to occur using copies of current production data, without disrupting normal operations.



### Any-To-Any Data Movement

By creating copies of your production data on any storage device at any location, StoreAge lets your development team focus on application testing, and not on data migration or other complex tasks.

- Creates instant, read/write copies of production data for testing purposes without taking applications offline.
- Performs any-to-any data movement between production and test environments.
- Allows multiple tests on multiple copies to occur in parallel.
- Changes to test data do not affect production data.

### Reduces Application Support Costs

In addition to accelerating the delivery of new applications, StoreAge helps minimize the cost of post-deployment support by helping you identify and eliminate more software bugs and errors prior to deployment. That means fewer trouble tickets, reducing the burden on your support staff and increasing the satisfaction of your users.

Scalable

Innovative

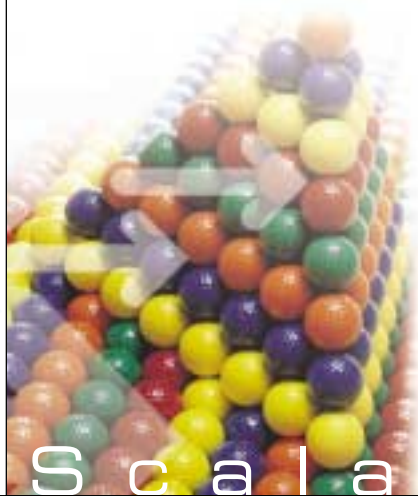
## StoreAge networking technologies

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Scalable

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SUB0015

StoreAge

Drive Down Costs, Maximize Uptime, and **Ensure Business Continuity** - With StoreAge

## Solution Set

StoreAge solutions help you realize the full potential of Storage Area Networks (SANs), enabling you to operate at peak efficiency by maximizing system uptime, providing multiple levels of data protection and ensuring business continuity should the unexpected happen.

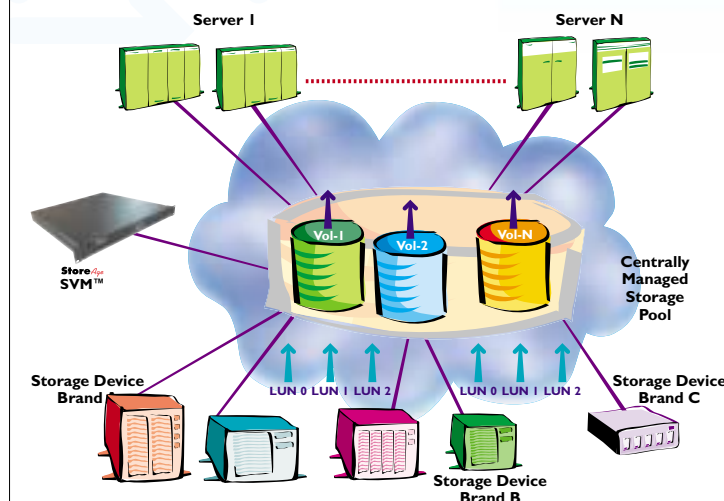
Below are six key areas where StoreAge enables you to manage ever-growing amounts of information with fewer resources by centralizing management, automating key tasks, and simplifying day-to-day operations.



Putting It All Together

## Putting It All Together

By combining StoreAge's advanced storage services applications, you are able to solve key IT issues:



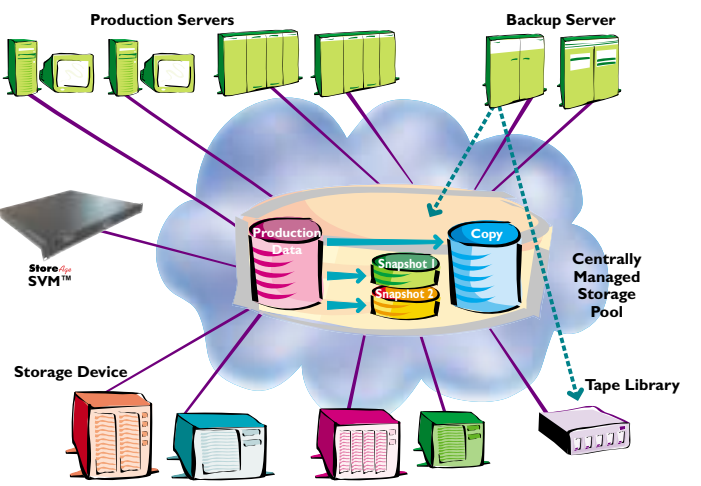
- Pool storage from any vendor to enjoy greater capacity utilization.
- Simplify administration by centralizing storage management in multi-vendor environments.
- Protect your company's most valuable asset - information - by creating and maintaining multiple copies of data (either low-capacity Point-in-Time copies or continuously updated copies) at one or more locations for multiple uses (e.g., backup, restore, DR testing, application testing, data warehouse updates).
- Migrate data from older storage devices (as they come off lease or need to be decommissioned) to newer devices without interruption to your production environment.
- Protect your investment in storage management tools, regardless of changes in the surrounding IT infrastructure.
- Ensure business continuity by maximizing data and application availability.

Innovative

All Together

# Zero-Window Backup & Rapid Restore

**Network-Based, Multi-Tiered Data Replication**  
 StoreAge solutions eliminate backup and restore problems by creating disk-based snapshot copies of production data, and moving the copies to tape or secondary disk without impacting production servers. Plus, each snapshot can be rapidly restored in seconds or minutes, minimizing downtime. Backups can now occur at any time of the day, allowing administrators to ensure that backups are complete before they go home.



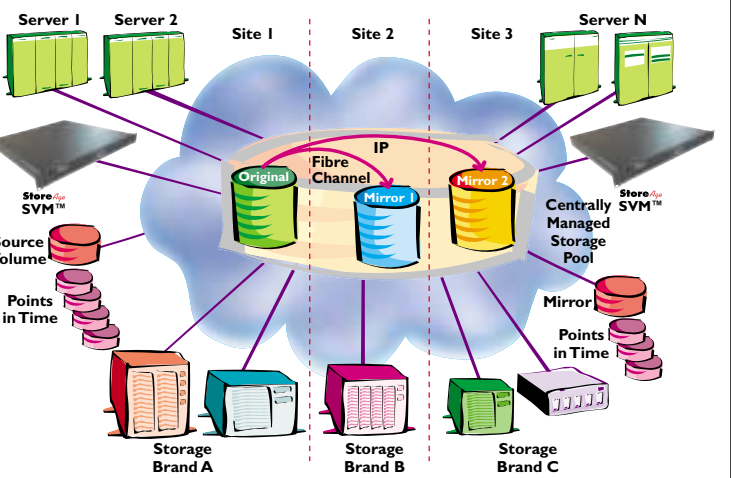
- Backups can occur at any time of the day, using instant read/write disk-based snapshots of production data.
- Production systems remain online and fully available during backup. Uses zero production server CPU cycles.
- Online snapshots reduce recovery times to minutes, and enable restores of application data to previous Points-in-Time.
- Compatible with existing backup software applications.

## Fully Automated Backup

Whether you backup to tape, disk, or disk and tape, StoreAge integrates with many popular backup software applications to fully automate the entire process. This preserves your investment in software and scripts while adding completely automated, non-disruptive backup to your data protection portfolio.

# Cost-Effective, Any-to-Any Data Mirroring

StoreAge provides an exceptionally affordable, vendor-independent Disaster Recovery solution that enables rapid resumption of operations after any type of downtime. By mirroring data either locally or remotely, and using limited bandwidth connections to reduce costs, StoreAge replicates data from any location, to any location. Plus, data from any storage device can be mirrored to any other type of storage device, eliminating the "vendor lock in" seen in other solutions and allowing low cost storage to be used at any location.



- Affordable, vendor-independent solution that enables rapid recovery from both planned and unplanned downtime.
- Any-to-any mirroring, from any device, to any device, to any location.
- Instant, read/write snapshots of mirrored volumes ensure data integrity between sites and enable system rollbacks to previous Points-in-Time.
- Local and remote mirroring (LAN, MAN and WAN) over limited bandwidth connections to reduce costs.
- Synchronous and Asynchronous mirroring.

## Content Distribution

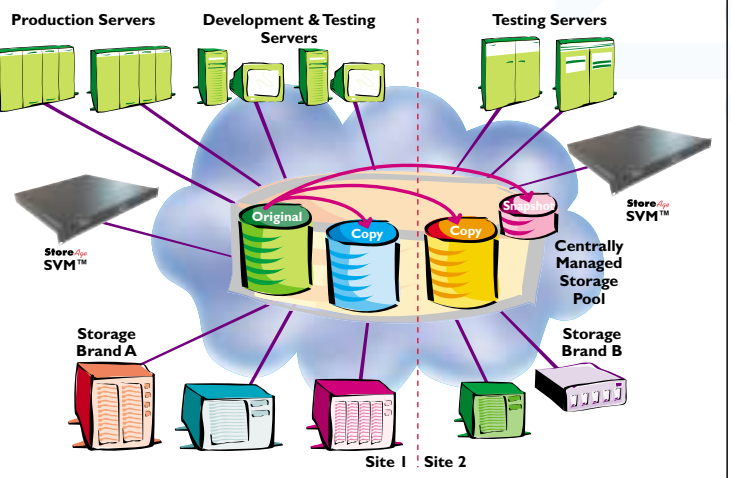
In addition to meeting your Disaster Recovery requirements, StoreAge solutions also allow you to easily distribute data between locations over any distance, speeding information to the people in your organization that need it most.

# Non-Disruptive, Any-to-Any Data Migration

With StoreAge, you can non-disruptively upgrade or replace your IT systems by migrating production data between different storage devices or locations while your applications remain online.

## Any-To-Any Data Movement

By creating copies of your production data on any storage device at any location, StoreAge lets your development team focus on application testing, and not on data migration or other complex tasks.



- Any-to-any data migration, both locally and remotely, from any device, to any device, to any location.
- Migrates data while production applications remain online.
- Centralized management of all migration activities for all servers and applications.

## Workload Balancing

Whenever your servers or storage devices become overloaded, StoreAge lets you proactively reassign applications to different devices or locations to achieve better performance and to balance workloads – all while your applications remain online and fully available.

## Archival & Lifecycle Management

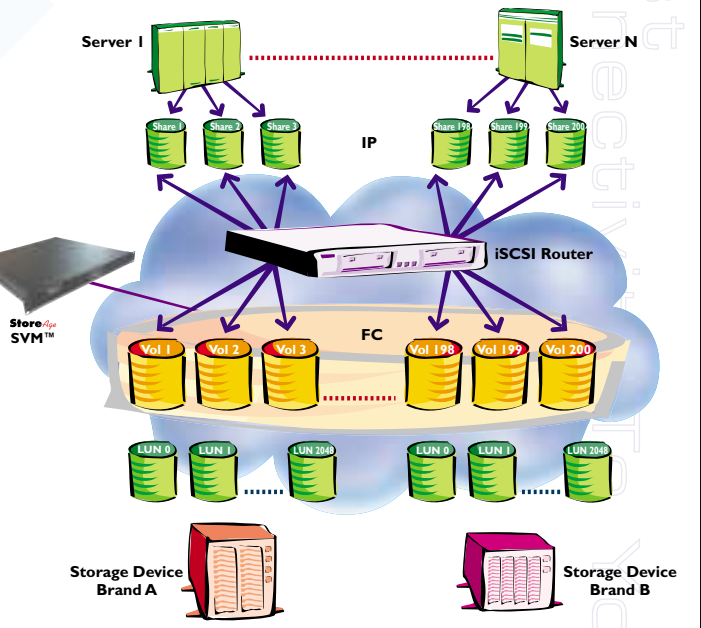
Optimize the use of high-end storage resources by non-disruptively relocating older or less frequently accessed data to secondary storage devices from any vendor.

# Low Cost IP-Connectivity To Your SAN

By attaching your LANs to your SAN, StoreAge enables you to centrally manage and protect storage for all IP-attached and FC-attached servers throughout your organizations.

## Unified Management, Faster Backups

Combining StoreAge solutions with standard iSCSI routers enables you to manage all your storage in a uniform manner. Regardless of the operating systems or storage devices in use, StoreAge allows you to dynamically provision storage, reclaim unused disk space, automatically expand capacity on a just-in-time basis, and perform LAN-free and server-free backups.



- Provision capacity from a central storage pool to servers over IP.
- Reduce the complexity and cost of managing storage for hundreds of servers.
- Prevent application downtime due to out-of-space conditions.
- Provide LAN-free and server-free backup to IP-connected servers.
- Respond faster to storage change requests.