



MIRRORSTORE™

REPLICATION APPLIANCE

Key benefits

Business continuity, disaster recovery

The MirrorStore replication appliance provides high-level business continuity and fast data recovery to assist in protecting your mission-critical information against rolling and sudden disasters, system failures and data corruption.

Storage consolidation, centralized management

The MirrorStore appliance lets you optimize your storage efficiency and reduce IT costs by consolidating and maximizing storage utilization, centralizing management and taking advantage of lower-cost disk storage technologies for non-mission-critical applications. It can significantly reduce hardware, software and management costs.

Windowless backup

Disk-to-disk backup capabilities done at the storage area network (SAN) level provide point-in-time data protection without requiring you to tie up systems for backup runs.

Cost savings, revenue protection

With its data mirroring and snapshot replication capabilities, the MirrorStore replication appliance helps you avoid the potentially devastating costs of data loss and data center downtime.

Easy integration

The MirrorStore appliance is a SAN-level, non-intrusive, Open Systems solution designed for maximum performance and flexibility. It fits seamlessly into existing heterogeneous environments for ease of implementation and maximum utilization of existing infrastructures and resources.



MirrorStore™ replication appliance

Data replication and mirroring for business continuity and disaster recovery

When your business rides on the 24 x 7 availability of information, even the temporary loss of data can wreak havoc. That's why you need a solution for high data availability and fast disaster recovery. The MirrorStore™ replication appliance provides local and remote data replication and mirroring to assist in protecting your data against sudden or rolling disasters and helps to provide availability of your mission-critical information. It helps reduce the chaos associated with the loss or unavailability of your data and its storage management complexity and cost.

A solution for your 24 x 7 data availability and protection needs

The MirrorStore replication appliance enables business continuity and fast disaster recovery via synchronous and asynchronous mirroring, innovative delta-based, transaction-aware replication and point-in-time snapshot technology. It allows data to be mirrored, replicated or backed up from one disk system at a primary site to a more cost-effective disk system at another site across your campus, the country or the globe.

For remote replication, flexible, policy-based replication sessions control how much and when data it is moved. Encryption and data compression provide added security and reduction in bandwidth requirements for long distances. Database and file system agents maintain a high level of data integrity. The MirrorStore replication appliance works with both Fibre Channel and IP connections.

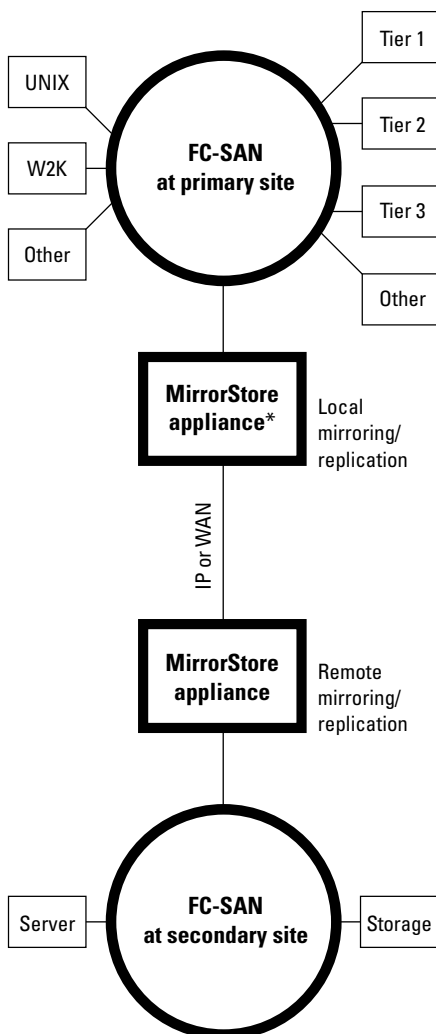
For added protection against rolling or soft disasters such as viruses and data corruption, the TimeMark option provides multiple instantaneous point-in-time snapshot copies of an active drive for tracking changes and rollbacks. If a disaster occurs, TimeMark provides the ability to roll back to previous snapshots.

The MirrorStore replication appliance is an ideal solution for a wide range of data protection and high-availability needs, including business continuity, disaster recovery, disk-to-disk backup and recovery.

By helping to maintain access to your information and enable fast recovery in the event of a disaster, the MirrorStore replication appliance reduces the risk of revenue losses — and helps cut operational costs and increase staff productivity.

No single point of failure

The MirrorStore appliance supports end-to-end protection for nonstop operations through clustering, redundancy and failover capabilities. The MirrorStore appliance's



*Redundant HA configuration with active-active failover.

active-active failover option provides the highest degree of availability and reduces the concern of a single point of failure. Should a MirrorStore appliance or path to it fail, the other MirrorStore replication appliance in the pair automatically and transparently takes over.

Optimize your storage and reduce cost

The MirrorStore appliance helps you to better manage your storage costs, data movement and management efficiency across different heterogeneous storage platforms. It allows you to utilize lower-cost disk storage for non-mission-critical applications and disk-based data protection/recovery.

A perfect fit

The MirrorStore appliance is an in-band, SAN-level, Open Systems solution optimized for performance, flexibility and compatibility. It fits seamlessly into existing computing environments and supports heterogeneous storage systems.

SAN-level MirrorStore replication appliance topology

The MirrorStore replication appliance solution encompasses a Linux-based, dual-processor server, Fibre Channel and Ethernet ports, MirrorStore software, maintenance, support and professional services. The MirrorStore appliance can be pre-configured with StorageTek's disk systems according to the application and performance needs.

To learn more

To learn more about how the MirrorStore replication appliance can help you control the chaos in your storage environment, talk to your StorageTek® representative. We have the solutions you need to help keep your business up and running — even when disaster strikes.

MIRRORSTORE

REPLICATION APPLIANCE

Features

Benefits

Advanced data replication

Flexible, intelligent replication policies with encryption and data compression

- Automatically manages amount and frequency of data being replicated
- Provides security and reduction in bandwidth requirements

Replicates block-level changes only

- Minimizes bandwidth requirements and exposure to data loss

Delta-based synchronization

- Automatically syncs existing data sets
- Minimizes bandwidth needs during initial setup

Immediately mountable replica volumes

- Reduces downtime, speeds recovery

Synchronous and asynchronous mirroring

Real-time or near-real-time mirroring of primary data to secondary storage

- Provides redundant online data availability and business continuity with minimal or even no downtime

Seamless integration

Non-intrusive, in-band, SAN-based Open Systems architecture

- Delivers maximum performance and flexibility
- Minimizes deployment risk and cost of ownership; optimizes ROI

Host and storage hardware independence

- Fits seamlessly into existing computing environments

Heterogeneous device and interface support

- Works with existing heterogeneous storage and servers

Security and reliability

Fault-tolerant design based on an active-active cluster architecture

- Helps to provide continuous data access

Data integrity protection

- Provides snapshot of source data and staging of target data to prevent data corruption and enable fast recovery

Centralized management

GUI-based management

- Enables easy setup and operation from a central Java interface

Built-in virtualization with option to choose not to virtualize

- Reduces storage cost and management complexity through consolidation and centralization
- Creates a centrally managed, high-performance SAN — with or without virtualization
- Provides flexibility — does not lock you into a proprietary virtualization solution or change existing legacy environments

MirrorStore replication appliance specifications

Performance

Processors	Dual 2.4 GHz CPU
Memory	4 GB RAM

Capacity

Fibre Channel ports	6 ports (3 x dual 2 GB)
Ethernet ports	2 Ethernet ports (1 x dual 1 GB)
Base client connections	5–20 included with base

Compatibility

SAN client license — additional	Up to 100 client options
Snapshot agents for file systems	Windows, NetWare, Solaris, AIX and HP-AUX
Database Snapshot agents	Oracle, Sybase, DB2, Informix, SQL, Exchange, Lotus

Management

Operating system	Linux
Base server software with optional support	Optional FC/SAN IP/iSCSI protocol
Active-active failover	High availability with base
Asynchronous mirroring	Real-time mirroring (FC/IP)
Synchronous mirroring	Near real-time mirroring (FC/IP)
Local replication	FC- or IP-based
Remote replication	IP- or FC-based
Snapshot copy	Point-in-time copy of storage volume on demand
Data compression, encryption	For remote IP-based replication
TimeMark	Delta-based, point-in-time Snapshot copies
IP trunking	Network rerouting and load balancing
Virtualization	No virtualization option
Bare metal recovery	Requires same client
Other software	Backup and performance optimization

Mechanical

Form factor	2u*
-------------	-----

*Rack space is measured in height and expressed as a u. One u is 1.75 in (4.45 cm) in height.



ABOUT STORAGETEK®

Storage Technology Corporation (NYSE: STK), a \$2 billion worldwide company with headquarters in Louisville, CO, has been delivering a broad range of storage management solutions designed for IT professionals for over 30 years. StorageTek offers solutions that are easy to manage, integrate well with existing infrastructures and allow universal access to data across servers, media types and storage networks. StorageTek's practical and safe storage solutions for tape automation, disk storage systems and storage integration, coupled with a global services network, provide IT professionals with confidence and know-how to manage their entire storage management ecosystem today and in the future.

StorageTek products are available through a worldwide network. For more information, visit www.storagetek.com, or call 1.800.275.4785 or 01.303.673.2800.

WORLD HEADQUARTERS

Storage Technology Corporation
One StorageTek Drive
Louisville, Colorado 80028 USA
1.800.877.9220 or 01.303.673.5151