

StorTrends® iTX 2.6

Dual Dialect IP Storage Software



StorTrends® iTX 2.6 Dual Dialect Storage Software provides both file-based and block-based storage functionality in a single, intuitive software stack, enabling businesses to utilize existing Ethernet networks to simplify data management and reduce storage expenditures. Designed for enterprise-level high availability and disaster recovery, it is cost-effective, scalable, and suitable for both novice and advanced users. StorTrends® iTX 2.6 allows customers to enjoy the advantages of the storage centralization and scalability of IP-based Storage Area Networks, and the ease of use and file-sharing of Network Attached Storage, on a single platform at an attractive price.

Data Sheet . . .

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HIGHLIGHTS

- > Advanced Snapshot
 - Redirect on Write (ROW)
 - 254 read-only snapshots per volume
 - 254 writable snapshots per volume
 - 992 snapshots per box
 - Snapshot scheduling
 - Rollback from any snapshot
 - Random snapshot deletion
- > Volume Replication
 - Synchronous
 - Asynchronous (continuous)
 - Snap-assisted (continuous/periodic)
- > Replication Wizard
- > Recovery Wizard
- > High Availability
- > Failover / Failback
- > Volume Expansion
- > Advanced Caching
 - Improves read & write-back performance
 - I/O scheduling
 - I/O aggregation
- > Thin & Exact Provisioning
- > Backup Support
 - VSS
 - Legacy
- > Integrated Web-based Management Tools
- > Universal UPS Support
- > Enhanced UI / Customization Tools

StorTrends® iTX 2.6 provides enterprise-level performance, high availability and disaster recovery at a price that appeals to small and medium-size businesses (SMB).

Synchronous replication enables data to be stored on multiple StorTrends appliances at multiple sites, for high availability and disaster recovery capability.

Asynchronous replication bundles I/Os and sends them to the remote server after a small time lag, boosting network utilization efficiency and reducing bandwidth cost.

Thin provisioning enables the administrator to create and manage storage volumes without restrictions. The provisioned volume size can be significantly larger than current physical storage capacity, so administrators can purchase additional StorTrends storage appliances as their needs grow.

High Availability grouping allows two StorTrends SAN heads to be grouped as highly available cluster nodes for Microsoft® initiators, for extreme fault tolerance and always-up availability. This technology provides protection against disk, path, and node failures with automatic, seamless failover.

StorTrends iTX 2.6 software features Advanced Snapshot capability with

Redirect on Write (ROW) technology. Administrators have the ability to schedule SAN and NAS snapshots, and to create and rollback to any snapshot in under a second.

StorTrends iTX 2.6 supports SAN snapshots using Microsoft VSS snapshot technology, or through agents specific for application servers like Exchange Server and Oracle®. SQL Server is supported through VSS. Microsoft® VSS-based snapshots support agent-less LAN-free backup.

Advanced caching improves read and write-back performance and efficient I/O scheduling, while I/O aggregation significantly improves snapshot performance.

Snap-assisted replication replicates snapshots from the primary system in chronological order to the secondary. In the event of a failover, the system will automatically recover to the latest available consistent snapshot image. Consistency Groups assure application-aware Snapshots.

Integrated web-based management with AMI's ManageTrends™ provides a simple configuration wizard to manage volumes, snapshots, logical disks, quotas, and alerts. and controls the discovery and management of multiple StorTrends appliances.



www.ami.com

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Features

StorTrends® iTX 2.6 Dual Dialect Storage Software Stack

Advanced Features

Block and file data transfer over existing Ethernet network
High Availability

Adaptive Provisioning
Provision Tracking
Advanced Replication

- Synchronous
 - Asynchronous
 - Snap-assisted
- Replication Wizard
Failover / Failback
Storage Alerts
Support for volumes up to 8TB
Volume Expansion
Advanced Snapshots
- Redirect (allocate) on Write (ROW)
 - Mount snapshots as Read-Only or Read-Write
 - Up to 254 read-only snapshots per volume
 - Up to 254 writeable snapshots per volume
 - Up to 992 snapshots per box
 - Random Snapshot Deletion
 - Rollback to any snapshot
- Advanced Caching
Caching Assisted Snapshot
Support for up to 32 volumes

Backup

VSS-based backup support for Windows® 2003 Servers
Backup agents for popular application servers
SAN & NAS Snapshot Scheduling
Intuitive SAN Snapshot Management
iSCSI Tape Backup Support

Networking

TCP/IP
FTP
HTTP
HTTPS
SNMP
Windows® (CIFS)
UNIX (NFS)
Apple

iSNS Configuration

Up to 16 iSNS servers are supported
Compatible with Microsoft® iSNS Server v3.0 and later versions
iSNS Client Supporting Draft 22 of iSNS Specification

Security

ACL security implementation supports:

- Local users
- Windows® NT/2000 Domain users
- Windows® 2003 Active Directory users
- NIS Domain users

iSCSI Target Configurations
iSCSI Qualified Name (iqn) format
Enable/Disable individual network ports for iSCSI traffic
iSCSI target supporting iSCSI RFC 3720
Tight iSCSI and iSNS integration
iSCSI error recovery level 0, 1 and 2
Maximum of 4 connections per session
Maximum of 32 target volumes
Multiple levels of authentication:
Mutual Chap, User Name/Password Chap
Authentication & iSCSI initiator
WWN Name
iSCSI Portal Tag Configuration from UI
View iSCSI data and error statistics

Management

Command Line Interface (CLI) through RS232 & SSH
Integrated Web-based Management GUI
Tools for easy customization, branding and theme updates

Event Management

Detailed Event Log
SNMP Traps (up to 4 destinations)

Remote Management

SNMP
SMIS 1.1
VDS

Storage Data Management

Storage Pool
LUN (Logical Unit Number) Creation & Management
LUN Dynamic Volume Expansion
Dynamic NAS Volume Expansion
Unified RAID Management

- Software RAID (levels 0, 1, 5)
- Supports Hardware RAID controllers

Auto RAID Rebuild

UPS Support

Universal UPS Support
Supports Windows OS/iTX/Linux as UPS slaves and many UPS makes & models

Advanced Features

Advanced Snapshot Technology

AMI's Advanced Snapshot technology enables up to 254 snapshots (R/O and R/W) from the block or file level. The module allows for rapid creation and deletion of a snapshot with near-zero degradation, permitting faster back-ups than ever before - with the assurance of a complete and secure back-up. Advanced Snapshot technology is focused on performance, enabling customers to mount a snapshot as a volume, read from a snapshot simultaneously, instantaneously roll back to a snapshot and delete it.

Replication

Synchronous Replication allows data to be stored on multiple StorTrends appliances at multiple sites, for high data availability and disaster recovery. Volumes are protected from site failure at the granularity of an I/O: primary and secondary sites are always in-sync with each other. Asynchronous replication minimizes bandwidth requirements for users willing to tolerate a few seconds of data loss, reducing bandwidth cost dramatically.

Snap-assisted Replication

This technology allows replication of snapshots in chronological order on a remote machine. Snapshots can be organized by application-based consistency groups. In fail-over to a secondary appliance, StorTrends iTX will automatically rollback to the latest consistent snapshot.

Advanced Caching Technology

Advanced Caching, a unique technology created by AMI, utilizes sector granularity technology based on an AMI proprietary mechanism, resulting in outstanding performance gains. Advanced Caching technology assists in snapshot read-modify-writes and in replication.



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