StorTrends® 3100i
ManageTrends™ 2.6

3U IP SAN & NAS Storage Appliance

StorTrends® 3100i is an affordable 3U, rack-mount storage appliance that offers support for both block and file data. It merges Ethernet-based Storage Area Networks (IP-SAN) and Network Attached Storage (NAS) on a single storage platform. StorTrends® 3100i supports iSCSI, which allows block applications like Exchange and Oracle data to be deployed or stored on the same server as traditional file services and storage. This appliance is designed with performance in mind and includes features for enterprise-level disaster recovery such as advanced snapshot, hardware RAID, volume replication and failover.

HIGHLIGHTS

- 3.75 or 7.5 TB IP SAN & NAS storage appliance
- Cost-effective and scalable
- Extreme performance levels
- Network Teaming
- Volume Replication
  - Synchronous
  - Asynchronous
  - Snap-assisted
- Failover / Failback
- Synchronous Replication
- SATA support with hot swap
- Advanced Snapshot
  - Redirect on Write (ROW)
  - Up to 254 Snaps per volume
  - Up to 992 Snaps per box
  - Snapshot scheduling for SAN & NAS
  - Rollback from any snapshot
  - Random snapshot deletion
- Advanced Caching
- Hardware RAID support
- High Availability (HA) Grouping
- MP I/O Support

StorTrends® products provide true enterprise-level features to departmental and SMB markets. They merge IP-SAN and NAS in one cost-effective, scalable and easy to setup storage appliance.

StorTrends® 3100i offers 15 hot swappable drive bays with advanced SATA support as well as highly distinguishing software features.

The dual dialect StorTrends® iTX 2.6 software enables transfer of both block and file data over the existing Ethernet network. It provides advanced disaster recovery features such as syncronous or asynchronous replication, snap-assisted replication, fail-over and fail-back. AMI's IP-SAN software also features high-availability grouping, network teaming support, UPS support, advanced snapshot, snapshot scheduling for SAN and NAS, backup support and advanced caching.

Volume replication allows data to be stored on multiple StorTrends appliances at multiple sites, which enables high availability and disaster recovery.

AMI's Advanced Snapshot features Redirect-on-Write (ROW) with almost zero degradation when writing or rolling back snapshots. Administrators can schedule up to 254 read-write and 254 read-only snapshots per volume, with up to 992 snapshots per box. A maximum of 32 target volumes is supported.

SAN snapshots are supported 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 allows for efficient IO scheduling. IO aggregation significantly improves snapshot performance.

StorTrends appliances can be managed by the integrated web-based ManageTrends™, which provides discovery and management of multiple StorTrends® appliances deployed across the network.

Dual Dialect Storage Software Stack

Transfers block and file data over existing Ethernet network

Advanced Features

High performance

Adaptive provisioning

Provision tracking

Replication

- Synchronous
- Asynchronous
- Snap-assisted

Replication Wizard

Failover / Failback

Storage alerts

Support for volumes up to 8TB

Volume Expansion

Snapshots

- Redirect (allocate) on Write (ROW)
- Mounting 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 32 volumes

Backup

VSS based backup support for Window 2003 Servers

Backup agents for popular application servers

Consistent SAN snapshot scheduling

NAS snapshot scheduling

Easy SAN snapshot management

iSCSI tape support

Networking

TCP/IP

FTP

HTTP

HTTPS

SNMP

Windows (CIFS)

UNIX (NFS)

Apple

iSNS Configuration

Up to 16 iSNS servers are supported

Compatible with MS 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 authentification & iSCSI initiator WWN name

iSCSI Portal Tag configuration from UI

View iSCSI data and error statistics

Management

Command line interface through RS232 & SSH

Integrated web-based management

Tool for easy customization, branding and theme updating

Event Management

Detailed Event Log

SNMP Traps (up to 4 destinations)

Remote Management

SNMP

SMIS 1.1

VDS

Storage Data Management

Storage pool

Dynamic NAS and SAN volume expansion

Hardware RAID 0, 1, 1+N, 10, 10+N, 5, 50

UPS Support

Universal UPS Support

Supports Windows OS/iTX/Linux as UPS slaves and many UPS makes & model

Advanced Features

Advanced Snapshot Technology

AMI Advanced Snapshot enables up to 254 snapshots (RO and RW) from the block or file level. The module allows for rapid creation and deletion of a snapshot with almost ZERO degradation, permitting faster back-ups than ever before - with the assurance of a complete and secure back-up. Performance is the emphasis of AMI's Advanced Snapshot, which enables 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 highest availability and disaster recovery. Volumes are protected across 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 customers willing to tolerate a few seconds of data loss, dramatically reducing costs.

Snap-assisted Replication

The technology allows replication of snapshots in chronological order on a remote machine. Snaps can be organized by application-based consistency groups. On a fail-over to secondary, StorTrends iTX will automatically roll-back to the latest consistent Snapshot.

Advanced Caching Technology

Advanced Caching, a new 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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