

# ManageTrends™ 2.1

## Storage Management Suite



ManageTrends™ 2.1 is a highly secure storage management software that is used to discover and manage StorTrends® storage appliances. ManageTrends 2.1 allows an administrator to manage multiple appliances through a single intuitive web-based GUI. Using ManageTrends allows existing staff to manage every aspect of a multiple StorTrends appliances from configuration to monitoring the health of every StorTrends appliance.

Data Sheet

03 29 2006

### HIGHLIGHTS

- > Centralized management of StorTrends storage appliances
- > Intuitive and web-based GUI
  - Install once – access everywhere
- > Smart storage configuration via wizard
- > Real-time hardware health monitoring that alerts the user in the case of failure
- > Real-time event management
- > iSNS Zoning

ManageTrends™ 2.1 is management software for StorTrends® 1100i and 3100i storage appliances featuring StorTrends iTX 2.1 Dual Dialect™ software. It allows an administrator to manage and configure multiple StorTrends storage appliances through a single intuitive web-based GUI.

ManageTrends 2.1 Management Suite discovers storage devices by using SNMP protocol. Discovery can take place at a scheduled time or it can be initiated at the administrator's preference. The discovered devices are listed and maintained in a database, which is displayed in a hierarchical view format. Once discovery has been successfully completed, centralized configuration and management of all storage appliances across the network can be done. The administrator can access any StorTrends devices by clicking on its name.

ManageTrends uses iSNS (Internet Storage Name Service) protocol to perform zoning, an important aspect of enterprise storage deployment. iSNS facilitates scalable configuration and management of iSCSI storage devices in an IP network by providing a set of

services comparable to that available in Fibre Channel networks. The iSNS server coordinates discovery and management responsibilities for each individual storage device.

In storage view, ManageTrends displays the Discovery Domain Sets (DDS), Discovery Domain (DD) and the network entities. The DDS and DD are displayed in a hierarchical format, along with the network entities and portal information. ManageTrends enables the administrator to create several zones and map the iSCSI targets to those zones by simply dragging and dropping targets and initiators. Key features of zoning capabilities are as follows:

- Create, view or edit zone information
- User defined name and comments for the zone
- Specify the iSCSI targets/LUN's to participate in the zone.

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### Features

#### Discovery and Configuration Management

Discovers using the SNMP protocol  
Manages StorTrends® iTX 2.1 devices  
Each discovered StorTrends iTX 2.1 device can be configured from a single console

#### Hardware Health Monitoring

Real-time hardware health monitoring  
Notifies the user in the event of failures

#### Easy Wizard configuration

An easy wizard is provided to quickly and easily configure your storage  
Advanced setup wizard for advanced users

#### Virtual Volume Management

Create/Delete Storage pools  
Manage thin/exact provisioned virtual volume(s)  
Complete management for SAN/NAS volumes, shares and folders  
Snapshot management

#### SNMP Support

All GET information is available through SNMP  
SNMP V2 support  
Network View  
Displays graphical representation of all discovered StorTrends iTX 2.1 devices  
Displays topology for each network in hierarchical tree format  
Helps the administrator to locate, monitor and manage StorTrends iTX 2.1 devices

#### Storage View, Zoning and iSNS

Hierarchical display of Discovery Domain Sets (DDS) and Discovery Domains (DD)  
Displays Network Entities with Portal information  
All IP-SAN networks are displayed in a hierarchical tree concept  
User(s) can view information on iSCSI devices by just clicking on the tree node  
Create, view or edit Zone information  
User defined name and comments for the zone  
Specify the iSCSI Targets/LUN's to participate in the zone  
Complies with the iSNS standard  
Add iSCSI initiators as objects that can be added to a zone

#### Security

DDDES login authentication  
Role based authentication  
HTTPS support  
Login session timeout after certain period of inactivity.

#### Hardware Requirements

Any X86 based machine  
256 MB of RAM  
300 MB of free Hard Disk space

#### Operating System

Microsoft® Windows® XP Pro (SP2 installed)  
Microsoft Windows 2000 Pro (SP3 or later)  
Microsoft Windows 2000 Server (SP3 or later)  
Microsoft Windows 2000 Advanced Server (SP3 or later installed)  
Microsoft Windows 2003 Server (SP1 installed)

#### Prerequisite Software Requirements

Microsoft .NET Framework version 1.1  
Microsoft Internet Explorer version 6.0 (with SP1 installed)  
Microsoft Internet Information Services (IIS) version 5.0 (and later)  
Windows Message Queuing services  
WMI SNMP Provider  
Microsoft iSNS Server 3.0  
Macromedia Flash Player 7.0 (or newer)

#### Supported Internet Browsers

Internet Explorer 6.0 (and later)  
Firefox 1.x (and later)  
Opera 8.x (and later)



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