

Sun StorageTek™ RAID Manager Software

Simple, centralized
management of data storage



Sun StorageTek™ RAID Manager software is an easy-to-use, full-featured software application designed to help Sun customers build and manage a protected storage environment for their online data using Sun StorageTek SAS RAID Host Bus Adapters (HBAs).

StorageTek RAID Manager lets storage administrators group disk drives into logical arrays and build in redundancy to safeguard an organization's vital data and improve system performance. The software can be managed from a single workstation and supports remote configuration, monitoring, and troubleshooting of StorageTek SAS RAID HBAs, as well as a broad set of compatible SAS/SATA hard disk drives¹ and storage enclosures.

The StorageTek RAID Manager software is included on an installation CD that ships with the StorageTek SAS RAID HBAs.

Centralized, Enterprise-Wide Storage Management

StorageTek RAID Manager is a robust, Java-based GUI management utility that allows multiple storage systems to be managed from a single console or browser. The software features multi-platform operating system support, including Solaris, Linux and Windows, with native 64-bit binaries. StorageTek RAID Manager also includes SAF-TE and SES-2 enclosure management support, with pictorial views for selected JBOD enclosures, and seamless support for SAS, SATA, and SATA II devices.

Easy-to-Use RAID Management

Sun's StorageTek RAID Manager software enables easy, remote configuration, monitoring and management of RAID arrays through secure, encrypted communications. Designed as a highly intuitive tool, the software simplifies RAID array creation and management through the use of mouse-based navigation, single-pass configuration wizards, pop-up tips and context-sensitive online help. The tool supports an expansive set of RAID types, including RAID levels 0, 1, 10, 1E, 5, 6, 50, 5EE, and 60.

Simple Status Monitoring of SAS/SATA Storage Solutions

To monitor the status of SAS or SATA disk drives, users simply select a disk drive object within StorageTek RAID Manager. The software will send a command to the backplane (for internal disk drives) or storage enclosure (for external disk drives), causing the LED associated with that drive to flash. To help isolate problems quickly, the software features color-coded status icons that allow easy identification of faulty components.

Transparent Operation

When the Sun StorageTek RAID Manager software is installed on a Sun server, a StorageTek RAID Manager agent also installs automatically. Designed to run in the background, the agent monitors and manages system health, event notifications, task schedules and other ongoing system processes, without user intervention. The agent sends notices when tasks are successfully completed, and sounds an alarm when errors or RAID failures occur.

Highlights

- Enterprise view for storage
- Intuitive, GUI-based storage management
- Easy RAID array setup and configuration
- Remote monitoring and troubleshooting
- Supports RAID levels 0, 1, 10, 1E, 5, 6, 50, 5EE, 60
- Manages SAS, SATA, and SATA II drives and hard disk enclosures
- Operating system support for Solaris™, Linux, and Windows
- Complements BIOS-based and CLI management tools



A Choice of Storage Management Tools

StorageTek RAID Manager software is one of several methods that customers of StorageTek SAS RAID HBAs can use to create and manage RAID arrays. As a full-featured, GUI-based software application, it is the easiest to use and offers the widest range of management functions, but customers also have the option to use an array configuration utility that supports BIOS-based menus and keyboard navigation. Recommended for creating bootable arrays, this BIOS-based utility also includes tools that can be used to modify HBAs and disk drive settings and to format or verify disk drives. Another option included with StorageTek SAS RAID HBAs is a text-based command line utility that enables more advanced users to perform basic array and configuration management functions, such as creating and deleting logical drives, modifying and copying configuration settings and recovering from disk drive failures, and troubleshooting.

Sun StorageTek RAID Manager Software Specifications

Supported HBAs

SGXPCIESAS-R-EXT-Z

- StorageTek SAS RAID Host Bus Adapter External, 8-port

SGXPCIESAS-R-INT-Z

- StorageTek SAS RAID Host Bus Adapter Internal, 8-port

Supported Operating Systems

- Solaris™ 10x86 32/64-bit (Solaris 10 SPARC delayed availability)
- Red Hat Enterprise Linux 4.0, 5.0 (32/64-bit)
- SUSE Linux Enterprise Server 9.0, 10.0
- VMware ESX Server 3.x
- Microsoft Windows Standard/Enterprise Server 2003 (32/64-bit)

Complementary Storage Management Tools

- BIOS-level RAID configuration utility
- Uniform command line interface (UCLI) utility

Supported Server Platforms

SGXPCIESAS-R-EXT-Z

- Sun x86 Systems

Sun Fire X2100 M2	Sun Fire X2200 M2
Sun Fire X4600	Sun Fire X4600 M2
Sun Fire X4100 M2	Sun Fire X4200 M2
Sun Fire X4140	Sun Fire X4240
- Sun SPARC Systems
To be announced (Q4 2007)

SGXPCIESAS-R-INT-Z

- Sun x86 Systems

Sun Fire X4140	Sun Fire X4150
Sun Fire X4240	Sun Fire X4440
Sun Fire X4450	
- Sun SPARC Systems
To be announced (Q4 2007)

Learn More

For additional information on Sun StorageTek RAID HBAs, go to: sun.com/storagetek/networking.jsp

RAID Support

RAID Levels

- RAID 0, 1, 10, 5, 50
- Advanced RAID 1E (striped mirror)
- Advanced RAID 5EE (hot spare)
- Advanced RAID 6/60 (dual drive failure protection)

1. Although both SAS and SATA disk drives can be connected to StorageTek SAS RAID HBAs, Sun recommends that customers not combine SAS and SATA disk drives within the same array or logical drive. The StorageTek RAID Manager software will generate a warning if customers try to create a logical drive using a combination of SAS and SATA disk drives.