Sun StorEdge™ Component Manager 2.1 Software

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Positioning

Introduction

Sun StorEdge™ Component Manager 2.1 software is a tool for controlling and monitoring the physical attributes of one or more Sun StorEdge A5X00 arrays or Sun StorEdge T3 arrays. It provides monitoring and management of array enclosures that are connected to a SPARC™ platform running the Solaris™ 2.6, 7, or 8 Operating Environment.

This software allows the user to perform unique control directives on some of the components (for example powering off a disk). In addition, Sun StorEdge Component Manager software affords constant monitoring of the Sun StorEdge A5X00 enclosures or Sun StorEdge T3 arrays and is capable of providing alarm notification and remote reporting (via e–mail, files, and system logging) upon detection of abnormal activities or conditions within a designated storage enclosure.

Note: *Note: Sun StorEdge Component Manager software does not manage the logical organization of stored data.*

Sun StorEdge Component Manager software is a Java™ technology–based storage management software plug–in that is accessible from the Sun StorEdge Management Console (SMC) software. SMC software serves as a storage management framework for Java technology–based management plug–ins, making it easier to operate, administer, and maintain storage area networks. The management GUI gives system administrators and service personnel a centralized point for storage administration. Sun StorEdge Management Console software enhances the reliability, availability, and serviceability (RAS) of storage assets. The SMC software implements elements of the specification for the Jiro™ open storage management platform to enable automated management services and interoperability across heterogeneous storage area networks.

Administrators and service personnel of supported arrays can use Sun StorEdge Component Manager's GUI and the Sun StorEdge Management Console software to:

- Monitor enclosures by using hardware polling, alarm notification, event logging, and remote reporting for abnormal conditions and activities
- Display the status of enclosures, enclosure components, and their associated properties
- Exercise control directives on some enclosure components, such as powering off a disk

New Features

The 2.1 release of Sun StorEdge Component Manager software includes support for the new Sun StorEdge T3 array, along with enhanced support for the Sun StorEdge A5X00 array. New or enhanced features include the following:

- Support for the Sun StorEdge T3 array
  - Physical view
  - LUN configuration
- Threading discovery and dynamic report/update
- The ability to discover enclosures asynchronously and also the during the start of the Sun StorEdge Component Manager software. The software will start very quickly and customers can see dynamically when each enclosure is done being discovered.

- Discovery mode vs. maintenance mode—instead of maintenance mode which turns off polling, discover mode will rediscover all enclosures.
- All polling intervals are now in the Sun StorEdge Component Manager software's configuration panel instead of in each enclosure configuration panel for ease of use.
- Polling intervals are saved between reboots.
- The system monitors for bad loops, if one is discovered and there is another path to the disks, the system has the capability to kill the laser or the loop.
- Two other features are provided with 2.1 release as a result of enhancements to the Sun StorEdge Management Console software:
  - Sun StorEdge T3 managed from Microsoft Windows NT operating environments
  - Integration with Sun Management Center (launching and alarm notifications)

Key Features

Sun StorEdge Component Manager software allows administrators and service personnel to monitor, display, and control devices and activities within supported Sun StorEdge A5X00 arrays and Sun StorEdge T3 arrays. Descriptions for Sun StorEdge Component Manager software's basic functions follow.

Function	Description
Enclosure discovery	Identify the set of storage arrays and asynchronously associated enclosures managed by a host.
Enclosure monitoring—health	Monitor and log the operational status of one or more storage arrays and associated enclosures managed by a host.
Enclosure monitoring—alarm generation and viewer	Create, display, and manage alarms generated by abnormal events detected by Sun StorEdge Component Manager software. Notification can include a combination of visual alarms to the GUI and e−mail messages for remote reporting.
Enclosure management and control	Control storage array and associated enclosure components: blink LEDs; bypass disks, backplanes, and GBICs; and set enclosure names.
Log viewing	View log entries by administrator. Logging provides auditing results of tasks executed by Sun StorEdge Component Manager software, or provides information about a sequence of events.
Log file monitoring	Monitor a log file continuously for particular string patterns. Once a pattern is identified, rules that are preset in the application can trigger alarms or events.
LUN configuration	LUN creation, deletion, initializing, mounting and unmounting are available from the Configuration Tab, Logical View
Management from Microsoft Windows NT systems	Sun StorEdge T3 array can be managed from Microsoft Windows NT operating environments
Integration with Sun Management Center software	Sun StorEdge Management Console can be launched from Sun Management Center software.

The subsections within the GUI are the health, control, configuration, and diagnostics tabs. More detailed descriptions of each are in the following sections.