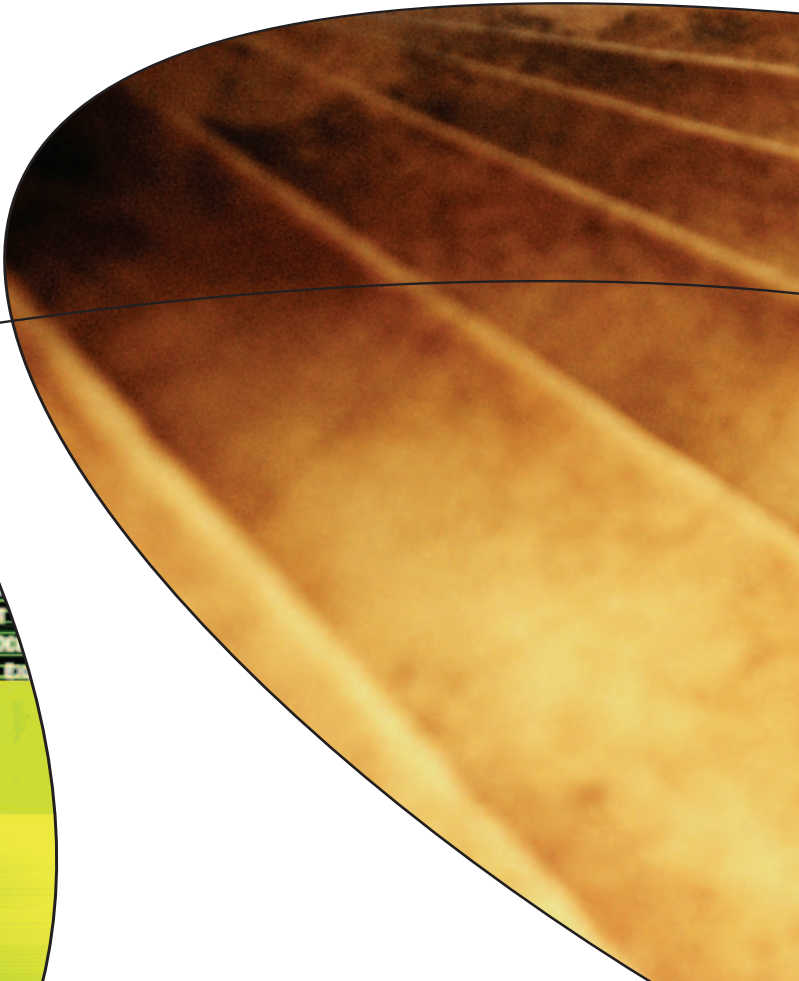




# Hitachi HiCommand<sup>®</sup> Device Manager Software

Partner Beyond Technology





# Hitachi HiCommand<sup>®</sup> Device Manager Software

By providing a single console for managing today's complex storage environments, HiCommand Device Manager software unifies and simplifies storage tasks.

## HiCommand Device Manager Software— Centralized, Simplified, Cost-effective Storage Management

Hitachi HiCommand<sup>®</sup> Device Manager software provides a single platform for centrally managing, configuring, and monitoring Hitachi storage systems and Sun StorEdge 9900/9990 series and T3 systems. By significantly boosting the volume of storage that each administrator can manage, the single point-of-control design of Device Manager software can help raise storage management efficiency in these environments as well as reduce costs.

Easy-to-use Device Manager software views storage resources logically, while maintaining independent physical-management capabilities. By offering a continuously available view of actual storage usage and configuration, Device Manager software allows administrators to precisely control all managed storage systems. The result? Highly efficient use of administrative time and storage assets. When combined with Hitachi HiCommand Tuning Manager and Hitachi HiCommand Storage Services Manager modules, Device Manager software helps automate entire storage environments.

## Customer Benefits

### Business Agility

- :: Organizes and manages storage from a logical perspective, along lines of business and/or departments
- :: Provides an immediate view of available storage and current usage through consolidated control of storage
- :: Enables easy deployment of storage resources to meet business and application needs

### Operational Excellence

- :: Improves IT productivity through consistent administrative operations across storage platforms anywhere in the enterprise
- :: Simplifies procedures linked to the configuration and management of large volumes of storage
- :: Automates storage management processes and provisions storage capacity in a fraction of the time previously required

### Risk Mitigation

- :: Facilitates the identification of storage system issues before they become problematic through proactive alerts
- :: Automates storage management processes and tasks, limiting the number of subsequent configuration changes
- :: Supports business continuity and disaster recovery capabilities by providing access to Hitachi ShadowImage<sup>™</sup> In-System Replication and Hitachi TrueCopy<sup>™</sup> Remote Replication software

### Cost-effectiveness

- :: Enables more efficient use of storage assets through a continuously available view of actual storage usage across all managed storage systems
- :: Allows administrators to manage more storage through single point-of-control and user interfaces
- :: Reduces training requirements and costs through use of a single product for all platforms
- :: Consolidates storage management for Hitachi storage systems—including the Hitachi TagmaStore<sup>™</sup> Universal Storage Platform's internal and externally attached storage—and Sun StorEdge 9900/9990 series and T3 systems

## Solutions to Complex Challenges

- :: Enables and simplifies centralized management of geographically dispersed storage
- :: Reduces costly errors associated with manual storage management procedures
- :: Empowers existing resources to manage significantly more storage
- :: Decreases repetitive human intervention by automating key elements of storage management procedures
- :: Manages storage logically, by line of business
- :: Aggregates groups of servers and storage systems with the same storage attributes
- :: Reports enterprise storage capacity chargebacks by logical group or line of business

## Feature Highlights

### Device Manager Software Topology and Features

Device Manager software's multitiered architecture consists of three components: the Device Manager server, a Web-based GUI browser, and Device Manager host agents. Device Manager software:

- :: Uses logical, physical, and host-based storage management capabilities
- :: Allows provisioning and storage pooling for primary and secondary storage
- :: Enables capacity analysis based on physical storage type and other criteria
- :: Integrates with replication products such as Hitachi Replication Monitor, Hitachi Universal Replicator, Hitachi Copy-on-Write Snapshot, ShadowImage, and TrueCopy software; creates, modifies, and deletes ShadowImage and TrueCopy pairs

- :: Integrates with Hitachi Cross-OS File Exchange software
- :: Integrates with systems management applications, such as CA Unicenter and HP OpenView
- :: Supports Microsoft Windows, Sun Solaris™, HP-UX, IBM® AIX®, and Linux (via Device Manager server)
- :: Protects each LDEV from unauthorized host access
- :: Includes an easy-to-use and consistent intuitive interface throughout HiCommand software modules
- :: Supports Microsoft and VERITAS clustering software
- :: Supports VERITAS Volume Manager, Solaris Volume Manager, AIX Logical Manager, and Sun Traffic Manager products
- :: Integrates with Hitachi modular storage systems' Quick Format and Copy-on-Write Snapshot software
- :: Provides remote management over Internet or wide-area networks (WANs) through Sun Java-based GUI
- :: Provides multiple levels of security for storage administrators
- :: Allows automation scripts through the Command Line Interface
- :: Provides link-and-launch capabilities for access to other vendors' products
- :: Includes ISV and IHV access through open APIs, CIM, and SMI-S compliance
- :: Identifies storage system conditions and issues via proactive alerts
- :: Reduces requirements for understanding low-level storage systems GUIs through wizard-driven dialogs

## System Requirements and Support Matrix

<http://www.hds.com/go/hicommandrequirements>

## Complementary Solutions

### Hitachi HiCommand Storage Services Manager Software

HiCommand Storage Services Manager software, powered by ApplQ, extends storage management capabilities in heterogeneous SAN environments. It auto-discovers your multivendor storage infrastructure and illuminates the path from each application through the storage area network (SAN) to storage system for complete, end-to-end monitoring, reporting, management, and automation capabilities.

### Hitachi HiCommand Tuning Manager Software

Fully integrated with the Device Manager module, HiCommand Tuning Manager software monitors storage capacity and performance metrics from the application to the storage device, enabling storage environment tuning and management of storage growth.

### Hitachi HiCommand Tiered Storage Manager Software

Tiered Storage Manager software interactively matches application quality of service requirements to heterogeneous storage assets. In conjunction with Device Manager, Tiered Storage Manager software performs nondisruptive movement of data volumes to match application-driven price, performance, and availability characteristics through an easy-to-use interface.

### Hitachi TrueCopy Remote Replication Software

TrueCopy software replicates data from one Hitachi storage system to another over any distance to provide everyday uptime improvement and rapid recovery in the event of an outage.

### Hitachi ShadowImage In-System Replication Software

The high-speed, nondisruptive technology of ShadowImage software rapidly creates multiple copies of mission-critical information within Hitachi storage systems while keeping data RAID-protected and fully recoverable—without affecting service or performance levels.

### Hitachi Universal Replicator Software

Designed to asynchronously replicate data from heterogeneous storage systems attached to the Universal Storage Platform, Universal Replicator software can copy data over any distance for outstanding business continuity. In addition, Universal Replicator software can mitigate the impact of network failures and data corruption by intelligently combining synchronous and asynchronous replication to enable rapid recovery.

### Hitachi HiCommand Replication Monitor Software

With a single, easy-to-use display for monitoring and visualizing volume replication configurations and status information, HiCommand Replication Monitor software simplifies administration of the entire suite of Hitachi replication products for open systems environments. It simplifies storage administration, helps ensure business continuity, and reduces operational and capital costs.

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