



**HITACHI**  
DATA SYSTEMS

# Hitachi HiCommand<sup>®</sup> Replication Monitor Software

Partner Beyond Technology





# Hitachi HiCommand® Replication Monitor Software

With a single, easy-to-use display for monitoring and visualizing volume replication configurations and status information, Hitachi HiCommand Replication Monitor software simplifies administration of the entire suite of Hitachi replication products for open systems environments.

## HiCommand Replication Manager Software—Visual Data Replication Reference, Point-in-time Status Indicator

As businesses try to manage ever-increasing amounts of storage on flat budgets, storage consolidation strategies have grown in popularity. However, while storage systems have become richer in scalability and function, they have also become more complex to configure and manage—particularly with regard to data replication to local or remote storage systems.

Meanwhile, businesses that rely heavily on IT systems for mission-critical operations face tremendous risk from downtime. Large enterprises can lose up to millions of dollars per hour. In addition, government regulations such as the Sarbanes-Oxley Act and the Health Insurance Portability and Accountability Act (HIPAA) in the United States and the international New Basel Capital Accord (Basel II) require that companies demonstrate business resilience and data protection.

Hitachi HiCommand® Replication Monitor software helps address these issues by interfacing with Hitachi HiCommand Device Manager software and the replication management functions for Hitachi storage systems and replication software. This collaboration allows storage administrators to get a visual reference for data under replication management, as well as a point-in-time status indicator of replicated pairs. Replication Monitor software also offers user notification of pairs suspended due to errors. Three different pair relationship visualizations are provided by Replication Monitor software—host, storage system, and managed pair. These allow the administrator to see cascaded pairs, drill down to the LUNs, or view control files.

## Business Benefits

### Simplify Storage Administration

- :: Provides centralized management of Hitachi TrueCopy™ Remote Replication, Hitachi ShadowImage™ In-System Replication, Hitachi Universal Replicator for TagmaStore™ Universal Storage Platform, and Hitachi Copy-on-Write Snapshot (formerly QuickShadow) software
- :: Decreases management complexity while increasing staff productivity and providing greater control than previously available
- :: Improves service levels by reducing planned and unplanned downtime of customer-facing applications

### Ensure Business Continuity

- :: Offers replication system status reporting to provide early warnings for potential problems
- :: Offers built-in capabilities for monitoring and managing replicated volumes for active problem avoidance
- :: Delivers discovery of enterprise-wide storage configuration and replication objects, eliminating tedious, error-prone data entry that can cause outages

### Reduce Operational and Capital Costs

- :: Reduces staffing and training expenses
- :: Reduces reconciliation time of pair management outages

## Feature Highlights

- :: Displays the configuration of a managed pair, all related cascading pairs, and all replication attributes—configuration file, host, storage system, ports, and LUNs
- :: Views the status of all replication pairs on Hitachi storage systems in real time
- :: Assists with reconciliation of pair management outages
- :: Enables multisite remote replication management for wide-area disaster protection with minimal data loss

## System Requirements and Support Matrix

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

### Simplify Replication Management. We're at Your Service.

The Hitachi Data Systems Global Solution Services team can help you address your replication needs through services that support Replication Monitor, Device Manager, Universal Replicator, TrueCopy, and ShadowImage software. Quick Start Implementation Services are available for both open systems and mainframe environments. These services assist you with the configuration and basic control of Hitachi storage-system-based data mirroring. They also help you support your data replication requirements, including backup and recovery, testing and development, business continuity, and disaster recovery.

## Complementary Solutions

### Hitachi HiCommand Device Manager Software

Device Manager software is an optimized storage area management platform for centralized management, configuration, and monitoring of Hitachi storage systems and Sun StorEdge 9900/9990 series and T3 storage systems.

### Hitachi TrueCopy Remote Replication Software

Available for both open systems and IBM® z/OS® environments, TrueCopy software is the industry's first storage-hardware-based, serverless, synchronous or asynchronous, remote copy solution that replicates data over any distance when coupled with channel extension products from Hitachi Data Systems partners, including CNT, Cisco Systems, and McDATA.

### Hitachi ShadowImage In-System Replication Software

The high-speed, nondisruptive local mirroring technology of ShadowImage software rapidly creates multiple copies of mission-critical information within all Hitachi storage systems. At the same time, it keeps data RAID-protected and fully recoverable—without affecting service or performance levels. Together, TrueCopy and ShadowImage software allow users to maintain up to 20 copies of information that can be moved to a secondary system at a local or remote site and deployed in disaster recovery scenarios.

### Hitachi Copy-on-Write Snapshot Software

Copy-on-Write Snapshot software provides nondisruptive, high-speed snapshot data replication within Hitachi Thunder 9500™ V Series modular storage systems. Storing only the changed data blocks in the Copy-on-Write Snapshot software storage pool results in a significant savings over full cloning methods. Copy-on-Write Snapshot software creates snapshot copies that are fully read/write compatible by other hosts and can be used for rapid data restores, application testing and development, data mining/data warehousing, or nondisruptive backup or maintenance procedures.

### Hitachi Universal Replicator for TagmaStore Universal Storage Platform

Designed to asynchronously replicate data from heterogeneous storage systems attached to the Hitachi TagmaStore Universal Storage Platform, Universal Replicator software can copy data over any distance for outstanding business continuity. Compared to traditional replication solutions, Universal Replicator software significantly reduces cache usage and increases bandwidth use by leveraging disk-based journaling. 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 Business Continuity Manager Software

Business Continuity Manager software (formerly CopyCentral) dramatically reduces recovery times from outages through the automation of complex disaster recovery and planned outage routines. It offers centralized, simplified management of TrueCopy and ShadowImage software running in IBM z/OS environments across an enterprise. Users can generate system performance metrics and threshold alerts to avoid problems and meet or exceed service-level objectives. The auto-discovery capability eliminates time-consuming and error-prone manual configuration of protection for complex applications and data layouts. Support for three data center disaster recovery solutions provides long-distance replication with minimal data loss.

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DISK-532-00 March 2005