

## Hitachi HiCommand® Protection Manager Software

By automating a rapid disk-to-disk backup/recovery solution for Microsoft® Exchange and SQL Server, Hitachi HiCommand® Protection Manager software decreases Exchange and SQL Server downtime.

### Rapid Yet Simple Disk-to-disk Backup/Recovery Management

How heavily does your business rely on e-mail and various database applications? For most organizations, an outage in either environment essentially shuts down operations. The cost of any outage is steep and repeated outages are not acceptable. Hitachi HiCommand Protection Manager software protects your mission-critical Microsoft Exchange Server and Microsoft SQL Server environments. Protection Manager software automates disk-to-disk backup and rapid recovery using proven Hitachi replication technologies. As a result, outages are minimized in terms of both occurrences and duration.

In addition to providing a complete disk-to-disk backup solution, Protection Manager software offers enormous improvements in reliability and recoverability for existing systems when used as the first three-tier disk-to-disk-to-tape backup strategy. This can result in enormous improvements in reliability and recoverability for existing systems.

Protection Manager software automates nondisruptive online backup of Exchange Server and SQL Server while providing rapid recovery in case of a database corruption or other form of outage. It uses the Microsoft Volume Shadow Copy Service (VSS) and Virtual Device Interface (VDI) framework to synchronize and automate operations with those applications.

Protection Manager software supports Hitachi storage, including TagmaStore® Universal Storage Platform, TagmaStore Network Storage Controller, TagmaStore Adaptable Modular Storage model AMS500, and Thunder 9585V™ modular storage.

### Business Benefits

#### Business Continuity

- Organizes and manages backup/restore operations from logical and application perspectives
- Automates the backup/recovery process, eliminating unexpected operational error
- Makes business more resilient 24/7

#### Mitigate Risk

- Shortens the backup window and protects more data within the available window
- Enables more frequent backups, minimizing the risk of data loss and shortening data recovery times
- Enables rapid recovery of data in the event of corruption
- Minimizes the potential costs of unplanned downtime

### Business Solutions

Hitachi Data Systems and its Hitachi TrueNorth™ Channel Partners offer industry-leading technology to help organizations of all sizes meet their unique requirements for business continuity, regulatory compliance, and data recovery. Together, we provide cost-effective storage products and solutions that leverage world-renowned Hitachi global R&D resources to deliver performance, availability, and scalability—supporting business-critical applications and strengthening competitive advantage.

To optimize the protection of critical business data in Microsoft environments, Microsoft has worked with Hitachi Data Systems to ensure the compatibility of the Hitachi HiCommand® Protection Manager software solution, and it is therefore fully supported by Microsoft and Hitachi Data Systems.

## Operational Excellence

- Simplifies replication and streamlines backup/recovery operations
- Eliminates error-prone custom scripting; easy to customize for user-defined daily operation
- Enhances the ability to satisfy demanding service-level agreements for uptime

## Cost-effectiveness

- Reduces time spent managing backups and allows protection of more data
- Reduces training requirements
- Reduces costs caused by unplanned downtime of mission-critical applications on SQL Server and Exchange Server

## Feature Highlights

- Shortened backup windows
- Rapid recovery
- Resource discovery and mapping
- Easy-to-use GUI interface
- Backup catalog provides backup history and information
- Integration with HiCommand Device Manager software
- Support for independent software and hardware vendor (ISV/IHV) tape solution integration
- Support for Microsoft VSS framework
- Support for Microsoft and Symantec Veritas clustering
- Support for Symantec Veritas Volume Manager software
- Support for the latest releases of Microsoft Windows File System
- Support for the latest releases of Exchange Server
- Support for the latest releases of SQL Server

## System Requirements

[www.hds.com/go/hicommandrequirements](http://www.hds.com/go/hicommandrequirements)

## Prerequisites and Complementary Solutions

### Prerequisites

HiCommand Protection Manager software is used in conjunction with Hitachi Business Continuity software products, specifically one or more of the following:

- Hitachi ShadowImage™ In-System Replication software
- Hitachi TrueCopy® Remote Replication software
- Hitachi Universal Replicator software
- Hitachi Copy-on-Write Snapshot software

More information regarding these prerequisites can be found at:  
[www.hds.com](http://www.hds.com) > Products & Services > Software > Business Continuity

### Complementary Software

- Hitachi HiCommand Storage Services Manager software
- Hitachi HiCommand QoS Modules
- Hitachi HiCommand Device Manager software

More information regarding these complementary software products can be found at:  
[www.hds.com](http://www.hds.com) > Products & Services > Software > Storage Management

### Complementary Services

- Hitachi SplitSecond™ Solutions for Microsoft Exchange
- Hitachi SplitSecond Solutions for Microsoft SQL Server

More information regarding these complementary services can be found at  
[www.hds.com](http://www.hds.com) > Products & Services > Services > Storage Solution Services

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