

## Hitachi Protection Manager Software

Providing application awareness and automation for rapid disk-to-disk-to-tape backup and/or recovery for Microsoft® Exchange and SQL as well as Oracle, Hitachi Protection Manager reduces the complexity around transaction consistent backup and recovery for mission critical business applications.

### Simplify Complex Backup/ Recovery Operations with Transaction Consistency

How dependent is your business on e-mail and various database applications? For most organizations, an outage in either environment essentially shuts down operations — and revenue. The combination of Hitachi storage systems and Hitachi Protection Manager software protects your mission critical Microsoft and Oracle environments. Protection Manager automates the often complex tasks of disk-to-disk-to-tape backup and recovery operations, while creating transaction complete backup volumes.

In addition to providing a complete disk-to-disk-to-tape backup/recovery solution, Protection Manager improves recovery operations by using first tier disk storage as “standby” clone volumes.

Protection Manager performs nondisruptive online backups of Microsoft Exchange and SQL. It uses the Microsoft Volume Shadow Copy Service (VSS) and the Virtual Device Interface (VDI) framework to synchronize and automate operations with these applications.

Hitachi Protection Manager software supports all models of Hitachi Adaptable

Modular Storage and Hitachi Universal Storage Platform™ families. Additionally, Protection Manager supports Hitachi in-system and remote replication software: ShadowImage® Heterogeneous Replication, Copy-on-Write Snapshot, TrueCopy® Synchronous/Asynchronous/Extended Distance and Universal Replicator.

Hitachi Protection Manager supports Microsoft Exchange (2000, 2003, 2007), SQL (2000, 2005, 2008), SharePoint 2007 and Oracle 10g and 11g.

### Business Benefits

#### Business Continuity

- Organizes and manages backup/restore operations from logical and application perspectives
- Automates the often complex tasks associated with mission critical application backup/recovery processes, eliminating unexpected operational errors and failures

#### Risk Mitigation

- 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 time

### 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.

#### Optimal Protection

To optimize the protection of critical business in Microsoft or Oracle environments, Hitachi Data Systems has worked to ensure the compatibility and support for Microsoft Exchange (2000/2003/2007), SQL (2000/2005/2008) and SharePoint (2007), as well as Oracle (10g/11g) across all Hitachi storage platforms.

- Enables rapid, disk-based, recovery of data in the event of corruption
- Minimizes the potential costs of unplanned downtime

### Operational Excellence

- Managing key business databases can be the most important aspect of IT operations; Hitachi Protection Manager directly interfaces with supported databases to simplify the task of defined backup and recovery operations.
- Automates application backups on Hitachi storage solutions by interfacing with the application, replication software, storage system and tape backup product to create transaction complete backup volumes
- Automatically discovers Microsoft Exchange/SQL objects, including database instance, databases within an instance, physical data and log files, mount points, and primary volume (P-Vol) and secondary volume (S-Vol) logical unit numbers (LUNs)
- Fully automates disk-to-disk-to-tape backup/recovery operations
- Leverages the high speed copy capability of Hitachi storage platforms
- Supports both a graphical user interface (GUI) and a command line interface (CLI), allowing Protection Manager software to operate in a standard database manner, and minimizing the need to understand or use Hitachi Command Control Interface (CCI) commands

### Cost Effectiveness

- Reduces time spent managing complex business application backups
- Reduces training requirements
- Reduces costs associated by unplanned downtime of mission critical applications running on SQL or Oracle databases

## Feature Highlights

- Application consistent and application aware backup
- Rapid recovery
- Resource discovery and mapping
- Easy-to-use GUI interface
- Backup catalog provides backup history and information
- Integration with Hitachi Device Manager software
- Support for independent software and hardware vendor (ISV/IHV) tape solutions
- 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

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