

Hitachi Protection Manager Software

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

Simplify Complex Backup and Recovery Operations, Maintain Transaction Consistency

How dependent is your business on email 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 and 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 Server. It uses the Microsoft Volume Shadow Copy Service (VSS) and the Virtual Device Interface (VDI) framework to synchronize and automate operations with these applications. Protection Manager can also run on the guest operating system of Microsoft Windows Server 2008 Hyper-V.

Hitachi Protection Manager software supports all models of the Hitachi Adaptable Modular Storage and Hitachi Universal Storage Platform® families. Additionally, Protection Manager supports Hitachi in-system and remote replication software: ShadowImage® Heterogeneous Replication and ShadowImage Replication, Copy-on-Write Snapshot, TrueCopy® Synchronous/Asynchronous/Extended Distance and Universal Replicator, as well as Microsoft Standby Continuous Replication (SCR) using VSS. Protection Manager also supports Oracle Real Application Cluster (RAC) and Oracle Automatic Storage Management (ASM).

Hitachi Protection Manager supports Microsoft Exchange (2000, 2003, 2007), SQL Server (2005 SP2 and SP3, 2008, 64-bit), SharePoint 2007 and Oracle 10g and 11g. Protection Manager also supports Symantec Backup Exec 12.5 and NetBackup 6.5.2 on Windows Server 2008 R2. In addition, online backups can be performed for Veritas Storage Foundation Cluster File Systems and Oracle databases on Veritas Cluster File Systems.

Business Benefits

Business Continuity

- Organizes and manages backup and restore operations from logical and application perspectives, as well as physical and virtual servers
- Automates the often complex tasks associated with mission critical application backup and 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
- 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 and SQL Server 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 and 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
- Allows verification processing to be executed in parallel when VSS backups are being performed from multiple Exchange database servers to one backup server at the same time

FEATURE HIGHLIGHTS

- Online backups that can be performed for Veritas Cluster File Systems
- Online backups that can be performed for Oracle databases on Veritas Cluster File Systems
- 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 Windows Server 2008 Hyper-V
- Support for independent software and hardware vendor (ISV/IHV) tape solutions
- Support for Microsoft VSS framework and Standby Continuous Replication
- Support for Microsoft and Symantec Veritas clustering
- Support for Symantec Veritas Volume Manager software and for configurations without Veritas Volume Manager
- Support for the latest releases of Microsoft Windows 2008 R2
- Support for the latest releases of Microsoft Exchange and SQL Server
- Support for Oracle RAC and ASM

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

Hitachi Data Systems Corporation

Corporate Headquarters

750 Central Expressway
Santa Clara, California 95050-2627 USA
www.hds.com

Regional Contact Information

Americas: +1 408 970 1000 or info@hds.com
Europe, Middle East and Africa: +44 (0) 1753 618000 or info.emea@hds.com
Asia Pacific: +852 3189 7900 or hds.marketing.apac@hds.com

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