

Hitachi Tiered Storage Manager Software

By transparently and interactively migrating data between heterogeneous, custom storage tiers, Hitachi Tiered Storage Manager software enables IT administrators to match application quality of service requirements to storage system attributes.

Transparent, Nondisruptive Data Volume Movement

As companies struggle to balance the exploding demand for storage with flat IT budgets, many administrators are adopting a tiered storage strategy that optimizes data placement while minimizing cost. A tiered strategy places data on the specific storage media that satisfies the quality of service and cost requirements of the application. However, these assets and requirements change over time, and data must be migrated between storage systems and storage tiers to maintain an optimal location.

Administrators also use migration to move stale or noncrucial data volumes to lower-cost storage systems; to resolve performance, capacity and usage bottlenecks; to manage equipment lease expirations and upgrades; and, to retire expensive-to-operate systems. But the migration itself can prove challenging, as the task of moving data can hinder or interrupt business applications.

Hitachi Tiered Storage Manager software addresses these issues by enabling IT administrators to easily and interactively match application-driven price, performance and availability requirements to storage system characteristics. When employed with

Hitachi storage, specifically the Hitachi Virtual Storage Platform, Tiered Storage Manager software provides an easy-to-use interface for performing transparent, nondisruptive movement of data volumes across heterogeneous storage systems. Based on the proven Hitachi Volume Migration data movement engine, Tiered Storage Manager software allows administrators to quickly provision storage to meet application deployment requirements and then fine-tune provisioning using multidimensional storage tiers.

Business Benefits

Simplify Storage Administration

- Allows seamless transparent data volume movement among any storage systems attached to a Virtual Storage Platform
- Enables movement of data volumes between custom storage tiers without requiring administrators to pause or quiesce applications
- Masks the underlying complexity of tiered storage data migration and does not require the administrator to master the operation of complex storage analysis

Optimize Performance and Availability

- Manages and automates the movement of data based on a robust set of attributes, including cost, performance and data protection
- Simplifies the task of optimizing storage infrastructure to satisfy application storage requirements
- Helps organizations effectively respond to business driven changes
- Eliminates application interruptions during data migration

Increase Manageability

- Enables application data migration for applications that are hard to migrate, or cannot be quiesced
- Safely moves data to larger systems as application requirements change
- Allows fine-tuning and error correction of storage provisioning without application outages
- Provides both easy-to-use graphical and command line user interfaces

Prerequisites

Hitachi Device Manager or Hitachi Basic Operating System Software

Required for Tiered Storage Manager software activities, Hitachi Device Manager software is an optimized storage management platform for centralized management, configuration and monitoring of Hitachi storage systems and Sun StorEdge 9900/9990 series storage systems. Device Manager is included with the Hitachi Basic Operating System software package and is also offered standalone for Hitachi storage systems.

Complementary Solutions

Hitachi Universal Volume Manager Software

Available both in the Hitachi Basic Operating System V software or standalone for older Hitachi storage systems, Universal Volume Manager software virtualizes multitiered storage systems of heterogeneous devices into a common storage pool and provides common storage management, data migration and lifecycle management tools on the Hitachi Virtual Storage Platform.

Hitachi Tuning Manager Software

Tuning Manager software is an automated, intelligent and path-aware storage resource management tool that maps, monitors, analyzes and measures storage network resources and performance from the application to the device.

FEATURE HIGHLIGHTS

- Manages volume migration through the use of custom tiering or saved searches
- Replaces storage system and storage semantics with higher-level application data quality of service metrics and customer-definable storage tiers (custom tiers)
- Enables performance optimization through integration with Hitachi Tuning Manager software
- Easily realigns application storage allocations
- Manages volume locations relative to an application's minimum requirements
- Offers easy search operations to build migration groups and custom tiers
- Supports quick view of which storage is provisioned to specific applications through the use of saved searches
- Allows unlimited numbers of custom tiers and saved searches; permits volumes to reside in multiple saved searches
- Provides persistent volume classifications (migration groups)
- Supports noninterruptive, completely transparent volume movement
- Batches migrations together in a plan and enables them to be immediately or manually released

Hitachi Replication Manager Software

Replication Manager software simplifies configuration and management of all replication performed by Hitachi storage systems, including the Hitachi Virtual Storage Platform, providing a single interface for visualization, status indication and user notification of copy functions.

Services

Hitachi Data Systems Global Services offers market-leading storage consultants, proven methodologies and a comprehensive portfolio of assessment and consulting, planning and design, installation, transition, management

and support services to help you successfully manage your storage infrastructure. Our experts apply best practices and ensure that Tiered Storage Manager is set up and configured correctly and with the least amount of disruption to your environment.

System Requirements and Support Matrix

<http://www.hds.com/products/storage-software/system-requirements>

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