

## Hitachi Tuning Manager Software

Hitachi Tuning Manager software provides advanced storage resource management reporting and analysis to enable comprehensive performance monitoring, troubleshooting and capacity forecasting for Hitachi virtualized storage environments.

### Proactive Monitoring, Reporting and Forecasting of Storage Resources

#### Storage Performance Challenges

Traditional storage resource management practices can be labor intensive and inefficient when it comes to accurately monitoring storage performance, identifying bottlenecks and forecasting capacity requirements. Without proactive management, storage performance could impact business productivity and place the most important corporate asset — information — at risk.

#### The Solution

Hitachi Tuning Manager software is a path-aware storage resource management application that maps, monitors and analyzes performance of network resources from the application through to the logical storage devices. By monitoring all storage network resources, including hosts, file systems, databases, SAN switches and Hitachi storage systems, Hitachi Tuning Manager provides the necessary visibility for complete performance management of the entire storage environment required for today's agile data centers.

Through a web-based interface, Tuning Manager software facilitates monitoring of the storage network with a comprehensive

range of performance statistics combined with predefined reports and custom reporting capabilities. Performance statistics can be trended over time to ensure performance requirements for mission critical applications are being met and facilitate the forecasting of future storage needs based on actual usage patterns.

By consolidating the analysis of performance, capacity utilization and latency, storage performance bottlenecks and problems can easily be identified and isolated. End-to-end visibility of all the storage resources on the application's data path helps to quickly analyze and troubleshoot performance problems. Alerts for critical performance thresholds can be proactively monitored to quickly notify administrators of any potential issues.

Tuning Manager software seamlessly integrates with key business applications, such as Oracle, IBM® DB2®, Microsoft SQL Server and Microsoft Exchange, and it fully operates with virtual server environments, such as VMware. As the performance foundation of the Hitachi Command Suite, Tuning Manager software helps to properly

optimize and manage the performance of Hitachi storage environments to both maximize storage utilization and reduce ongoing operating costs.

#### Business Benefits

##### Improve Business Agility and Manage Growth

- Monitors performance proactively; provides alerts of potential issues before failures can occur
- Enables resource analysis to easily correlate applications, hosts and storage resources
- Speeds the identification and resolution of storage performance and capacity problems
- Supports faster application deployment through planning and forecasting of adequate storage resources
- Supports growing virtual server farms

##### Enable Operational Excellence

- Improves IT processes through enhanced reporting and forecasting
- Ensures application performance by properly monitoring resources from the application through to the storage logical devices

- Delivers automated alerts when utilization and/or performance exceed critical or predefined thresholds
- Allows proper planning for storage performance by reviewing historical trends and quickly identifying the source of bottlenecks

#### Mitigate Risk and Increase Efficiency

- Eliminates storage capacity overruns
- Improves planning and use of Hitachi Dynamic Provisioning and Hitachi Dynamic Tiering software
- Enables more effective use of administrative resources through better monitoring, forecasting and troubleshooting

#### Reduce Operational Costs

- Empowers personnel to make informed storage performance decisions
- Improves planning processes; allows better allocation of storage resources
- Enables more storage resources to be managed per person

#### Complementary Services

Hitachi Data Systems Global Solution Services provides the following complementary services:

- Implementation Service for Hitachi Tuning Manager Software
- Remote Reporting Service for Hitachi Tuning Manager Software
- Storage Platform Assessment Services

Please contact Hitachi Data Systems Global Solution Services for more information regarding these services.

## FEATURE HIGHLIGHTS

### End-to-end Storage Performance Management

- Provides mapping and reporting on all storage network resources: applications, databases, servers, virtual servers, virtual machines, paths, switches, storage ports, logical unit numbers (LUNs) and parity groups
- Provides in-depth performance of Hitachi storage systems
- Monitors application and storage system response times and latency
- Monitors SAN fabric performance

### Storage Performance and Capacity Planning

- Monitors, reports and forecasts on both storage capacity and performance metrics
- Enables storage requirement analysis and planning from the application perspective
- Provides advanced monitoring and reporting of Hitachi Dynamic Provisioning and Hitachi Dynamic Tiering software
- Employs multilevel capacity and performance alerts for proactive storage resource management
- Generates both predefined and easily customizable storage reports

### Hitachi Command Suite Integration

- Supports all Hitachi storage systems and virtualized storage infrastructures
- Integrates with Hitachi Device Manager for storage configuration management and sharing of logical group constructs
- Integrates with Hitachi Storage Command Portal for business oriented storage views and monitoring of storage service levels
- Supports VMware ESX operating system environments

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