

Obtain operational efficiencies with proper management of application service levels, system performance and storage capacity. Use Hitachi Command Suite Analytics software to maximize your storage return on investment.

Hitachi Command Suite Analytics

Ensure Storage-Service Levels for Your Mission-Critical Business Applications

Storage management is no longer focused on the daily administration of physical storage devices. Instead, today's data centers must deliver storage services to business-critical applications. Ensuring application storage-service levels, accurate monitoring of performance and capacity utilization, plus managing storage from multiple business perspectives are no longer nice-to-have capabilities: They are necessities.

Hitachi Command Suite Analytics software for the Hitachi Virtual Storage Platform (VSP) family, including VSP G1000, VSP G200, VSP G400, VSP G600, VSP G800¹, and Hitachi Unified Storage VM, provides comprehensive application service-level and storage performance management. This analytic software combines the capabilities of Hitachi Command Director and Hitachi Tuning Manager. It ensures that you can implement storage-service-level management accurately across your business applications, maximize capacity utilization, and rapidly identify and troubleshoot performance hot spots. Thus, you can reduce storage management time, risk and costs.

Hitachi Command Director software centralizes application-based storage-service-level management across the Hitachi Command Suite. By providing business intelligence views of the storage environment, it enables IT organizations to easily align Hitachi storage assets with critical business applications and functions. It also simplifies application-to-storage reporting.

As key storage performance and capacity indicators are monitored by application, compliance to application-specific service levels can be properly measured and enforced. Hitachi Command Director delivers business application service-level reporting by leveraging statistics gathered from across the Hitachi Command Suite of products, while offering multiple dashboard options.

Hitachi Tuning Manager software is a storage performance management solution that helps you to quickly identify and isolate application performance issues and determine if storage is at fault. Integrated with the Hitachi Command Suite management framework, Tuning Manager provides end-to-end performance monitoring, reporting and correlation. It provides analysis of network resources, from the application through to the logical storage devices, including databases, hosts, storage paths, SAN switches, virtual storage machines and Hitachi storage systems. By reporting

on all networked storage resources with both predefined and custom reporting capabilities, Tuning Manager provides the necessary visibility and analysis for performance optimization of Hitachi virtualized storage environments.

Storage-Service-Level Management

Business applications have varying storage performance and capacity requirements based on their business criticality. Hitachi Command Suite Analytics addresses these needs by allowing you to properly define, customize and monitor individual business application storage-service levels. It helps you to quickly identify applications at risk and resolve problems when application storage service levels are not being met.

Maximize Storage Performance

Maintaining optimal storage performance and capacity utilization is often hindered by lengthy efforts to identify and troubleshoot storage-performance bottlenecks. Hitachi Command Suite Analytics provides insights and best practices for monitoring key storage performance indicators to isolate bottlenecks and maximize storage system performance. Hitachi Command Suite Analytics provides integrated troubleshooting aids to quickly identify and isolate issues when application performance problems are reported.

¹VSP G800 model available after initial release. Ask your HDS representative or partner for more information.

Shared Resource Optimization

Shared storage resources can easily become overtaxed, requiring lengthy workload analysis to determine the origin of the stress. Hitachi Command Suite Analytics provides broad infrastructure monitoring and deep storage system analysis, which are required to optimize shared storage resources.

Performance and Capacity Planning

As server and storage virtualization continues to expand across the data center, capacity planning becomes increasingly challenging. Hitachi Command Suite Analytics provides informative reports and forecasting tools required to help you properly plan both capacity and performance requirements within Hitachi global storage virtualization environments.

Business Benefits

Improve Return on Storage Investment

- Increase utilization and maximize performance of existing storage resources.
- Ensure customized storage-service-level objectives for business applications are being met.

Increase Availability and Reduce Downtime

- Enable fast problem identification and troubleshooting to shorten problem resolution times.
- Improve application performance and uptime as service-level agreements are properly monitored and enforced.

Administrative Efficiency to Lower Operational Costs

- Effective storage performance monitoring with end-to-end visibility from application to shared storage resources.
- Custom alert notification enables administrators to identify and resolve problems before they can affect users.

Services and Training

Hitachi Data Systems Global Services offers market-leading storage consultants, proven methodologies and a comprehensive portfolio of services to help you optimize and align storage resource to your business requirements. Our assessment, planning and design, installation, management and support services leverage Hitachi Command Suite software to help you manage and automate storage management and analytic practices.

HITACHI COMMAND SUITE ANALYTICS FEATURE HIGHLIGHTS

Service-Level Management

- Create near-real-time and customized storage dashboards for monitoring application-based storage-service levels.
- Define custom business views of applications and business functions with their respective storage resources and monitor key storage capacity and performance indicators.
- Automate the definition of storage-service-level objectives for business applications with integrated service-level profile recommendations.
- Establish storage-service-level objectives for critical business applications, such as allocated and utilized capacity, storage logical device (LDEV) response times, IOPS, data transfer rates, read hits and write pending.
- Investigate application-service-level violations to identify and troubleshoot potential performance issues.

Storage Performance Management

- Monitors and reports on detailed storage capacity and performance metrics for Hitachi virtualized storage environments.
- Generates capacity reports on storage pools, file systems and applications.
- Provides mapping of all networked storage resources on the application's data path: applications, databases, host servers, virtual servers, virtual machines, storage paths, switches, storage ports, parity groups, virtual storage machines and logical storage devices.
- Provides in-depth analysis of performance, capacity and operational metrics for Hitachi storage systems.
- Enables efficient monitoring and troubleshooting of Hitachi NAS Platform file server environments.
- Provides advanced reporting of Hitachi Dynamic Provisioning and Hitachi Dynamic Tiering storage pools.
- Provides data sharing extensibility with REST-based API for integration with other system management environments.
- Generates both predefined and customizable storage performance reports, both on demand and on a schedule, that are exportable via email, pdf and csv files.

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