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 has been transformed. It 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 Hitachi Virtual Storage Platform G1000 and Hitachi Unified Storage VM provides comprehensive application service-level and storage performance management. It provides these abilities by combining the capabilities of Hitachi Command Director and Hitachi Tuning Manager. The analytics software ensures you can accurately implement storage-service-level management 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 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 functions and simplify application-to-storage correlation and 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 and reporting 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 and correlation. It provides analysis of network resources, from the application through to the logical storage devices, including databases, hosts, 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. Please visit the Hitachi Data Systems website to learn more about Hitachi Command Suite’s analytics capabilities.

Storage-Service-Level Management

Business applications have varying storage performance and capacity requirements based on their business criticality. Hitachi Command Suite Analytics software answers these needs by allowing you to properly define, customize and monitor business application storage-service levels. It helps you to quickly identify applications at risk and resolve problems when application 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 into key storage performance indicators and best practices to isolate bottlenecks and maximize storage system performance. Command Suite Analytics provides integrated troubleshooting aids to quickly identify and isolate issues when application performance problems are reported.
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 required to optimize shared storage resources.

Performance and Capacity Planning

As server and storage virtualization grows more prevalent across the data center, capacity planning becomes increasingly more challenging. Hitachi Command Suite Analytics provides informative reports and forecasting tools required to optimize both capacity and performance planning 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 resources 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 real-time and customized storage dashboards for monitoring the health of the storage infrastructure.
- Create custom business views of applications and business functions with their respective storage resources and monitor key storage capacity and performance indicators.
- Automate 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 bottlenecks.

**Storage Performance Management and Planning**

- Monitors and reports on detailed storage capacity and performance metrics for Hitachi virtual storage machines.
- Generates capacity forecast 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, paths, switches, storage ports, parity groups, virtual storage machines and logical storage devices.
- Provides in-depth analysis of performance and capacity 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 new data sharing extensibility with REST-based API for integration with other system management environments.
- Generates both predefined and easily customizable storage performance reports, both on demand and on a schedule, that are easily exportable via email, pdf and csv files.