

Hitachi Command Director



Hitachi Command Director software provides a business intelligence view of your Hitachi storage environment to ensure storage service level objectives (SLOs) for mission-critical business applications are being met.

Properly Manage Storage Capacity and Performance Requirements for Your Business Applications

IT organizations spend a considerable amount of time and effort developing tracking processes to correlate and analyze storage resources back to the respective business applications that rely on them. Without accurate and detailed storage reporting, there are no assurances that application service levels are being met, and effectiveness of storage management practices is limited.

A wide range of data management statistics is required for comprehensive storage resource management, including storage device configurations, performance, capacity, tier, file system, path and data management policies. Usually, this information is collected and stored across several management tools without an easy way to combine and analyze all the relevant information in an integrated manner.

Hitachi Command Director software provides comprehensive management reporting of Hitachi storage environments by enabling users to easily consolidate key management statistics and group storage resources by hosts, applications, file servers and business unit perspectives. Users can monitor and

analyze performance data from across Hitachi Command Suite to properly tune their Hitachi storage systems for optimal capacity and performance utilization. With business intelligence views of the storage environment, organizations can easily define storage management policies, align storage assets with critical business applications and simplify business application-to-storage reporting.

Hitachi Command Director facilitates customized dashboards for real-time monitoring of key storage performance and capacity indicators by business application, such as response times, IOPS (input/output per second), data transfer rates, cache reads, writes pending and utilized capacity. By verifying application-specific storage SLOs are being met, administrators can implement policies to enable the rapid modification of the storage environment for changing business requirements.

Hitachi Command Director addresses the following key IT management challenges:

- **Storage visibility across the data center** provides end-to-end views and correlation from applications and

virtual machines to virtualized storage resources, ensuring complete monitoring of the storage infrastructure.

- **Service-level compliance for business applications** ensures each business application is meeting its defined storage-service-level requirements.
- **Improved capacity utilization and planning** analyze actual capacity consumption to efficiently improve utilization of existing storage resources and effectively plan for future growth.
- **Delivery of storage as a utility** enables enterprise IT to apply differing storage service levels to business units, applications and file servers with appropriate chargeback capabilities.

Hitachi Command Director simplifies the monitoring and management of all Hitachi storage systems, whether block, file or unified, by utilizing a shared reporting platform across Hitachi Command Suite. This fully leverages existing IT resources and maximizes return on storage investments.

Business Benefits

Hitachi Command Director provides the following business benefits:

Manage Storage Assets by Business Application

- Gain a business intelligence view of storage resources correlated back to their respective business applications and functions.
- Customize dashboards of business applications and related storage resources for enterprise-wide monitoring and reporting needs.

Improve Utilization of Storage Assets

- Receive detailed reporting of allocated and utilized storage capacity without the need for host-based agents, to increase storage utilization and improve return on storage investments.
- Ensure optimal file server performance by monitoring key file server performance statistics to help identify the busiest NAS nodes.

Monitor Business Applications for Adherence to Storage Service Levels

- Proactively monitor compliance of storage service levels for mission-critical business applications.
- Establish storage SLOs by application, based on detailed capacity and performance metrics.

Detect Problems Early to Avoid Storage Performance Bottlenecks

- Monitor overall storage system health based on best practice rules to help detect problems early and reduce the likelihood of any performance issues.
- Provide a consolidated service-level view of your infrastructure by aggregating key storage performance, capacity and tier indicators from across the Hitachi Command Suite of management products.

FEATURE HIGHLIGHTS

- Create real-time storage dashboards for monitoring the overall health of the storage infrastructure.
- Create custom business views of applications and business functions with their respective storage resources.
- Provide a mobile view of storage management dashboards using the Hitachi Command Suite for iPad app from virtually anywhere.
- Monitor and report on key storage capacity and performance indicators by applications, file servers and business entities.
- Customize storage management reporting with allocated and consumed capacity statistics to enable accurate capacity planning.
- Establish storage SLOs for critical business applications, such as allocated and utilized capacity, storage logical device (LDEV) response times, IOPS, data transfer rates, read hits and writes pending.
- Report and provide alerts on application-based storage-service-level thresholds and overall storage system health.
- Provide detailed file server performance monitoring covering network protocol and file system performance statistics with correlation between front-end and back-end storage system ports.
- Investigate application-service-level violations to identify and troubleshoot potential performance bottlenecks.
- Correlate virtual-machine-to-storage LDEV reporting for both VMware and Microsoft Hyper-V server environments.
- Enable chargeback reporting based on application or file server capacity consumption, application service levels or SLO compliance.
- Generate capacity reports for multivendor storage environments, including EMC Symmetrix VMAX.
- Receive storage-service-level management support for all Hitachi storage environments.

Hitachi Command Suite for iPad app supports Hitachi Command Director for remote monitoring of the storage environment, and it is available for download from Apple's App Store.



Hitachi Data Systems

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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