

Hitachi Basic Operating System and Basic Operating System V Software Packages for Hitachi Virtual Storage Platform

Unify and simplify storage tasks with Hitachi Basic Operating System and Hitachi Basic Operating System V for optimized operational efficiency and storage utilization.

Simplify Storage Management, Gain Full Control of Thin Provisioning and Virtualization

The Hitachi Basic Operating System and Basic Operating System V software packages for Hitachi Virtual Storage Platform are deeply integrated tools that both simplify storage management and give you full control of the thin provisioning and virtualization capabilities of Hitachi Virtual Storage Platform.

They are ideal for enterprises seeking simpler ways to manage their storage, either for a single Hitachi system or for larger installations composed of multiple heterogeneous storage systems. They enable hands-on management, delivering more efficient utilization and control of your storage assets, and they also include interfaces for automating your storage management processes.

Basic Operating System Features

One set of common management tools covers all Hitachi storage. It includes features formerly provided by Hitachi software: Device Manager, Dynamic Link Manager Advanced, Storage Navigator and the Resource Manager utility package. It also supports up to 4 cache partitions.

Hitachi Dynamic Provisioning software is included to add support for thin provisioning with attendant administration, performance and capacity utilization improvements.

Basic Operating System V Features

Basic Operating System V is an add-on upgrade to the Basic Operating System that:

- Adds the unique ability to virtualize storage systems externally attached to Hitachi Virtual Storage Platform, creating a single heterogeneous pool of tiered storage. This enables simplified storage management, increases utilization and efficiency, improves service levels, simplifies data migration and helps meet compliance demands.
- Expands cache partitioning support to up to 32 cache partitions.

Capabilities

The Hitachi Basic Operating System software package was created to deliver the storage return on investment, security and quality of service to applications that companies require.

And Basic Operating System V enables the unique embedded virtualization capabilities of Hitachi Virtual Storage Platform. Basic Operating System V allows organizations to take advantage of Hitachi storage management, thin provisioning and data mobility capabilities within a single system or across an entire heterogeneous storage pool.

The primary Basic Operating System interface, Hitachi Device Manager, provides an easy-to-use and intuitive graphical user interface to centrally manage Hitachi Virtual Storage Platforms, along with other Hitachi enterprise storage systems, Hitachi Adaptable Modular Storage systems, and Sun StorEdge 9970V and 9980V storage systems.

A complete command line interface (CLI) is also included. Through Device Manager, Basic Operating System provides user, logical, physical and host management views that enable provisioning and storage pooling for primary and secondary storage. It offers multiple levels of security for disks, ports and administrators, and its reporting capabilities enable capacity analysis based on server or application, or physical storage class usage.

Business Benefits

Integrate Operations

- Consolidates and rationalizes storage and storage management points; uses a single Device Manager server to manage all Hitachi storage; enables access from anywhere using secure protocols
- Configures storage system for mixed Microsoft, UNIX, Linux and IBM® mainframe environments, simplifying administrative work and enabling storage consolidation
- Improves IT productivity through consistent administrative operations across storage systems; simplifies everything else, including SAN multipathing, data replication, migration and storage tiering
- Supports Hitachi business continuity and disaster recovery capabilities
- Integrates Hitachi storage with other management systems through VSS, SNMP or CIM/SMI-S

Align Storage Assets with Business Functions and Requirements

- Enables easy storage resource deployment
- Provides immediate view of all classes of available storage and current use; rapidly allocates more storage; enables improved use of enterprise storage assets
- Defines logical groups for reporting and management; allows assignment of “meaningful” group names
- Organizes, manages and reports on storage applications and storage classes; generates reports by storage system or logical group with HTML or CSV output

Optimize Storage System Performance

- Ensures storage service levels to individual servers or applications; allows workload balancing and performance troubleshooting

FEATURE HIGHLIGHTS

Hitachi Basic Operating System

- **Device Manager** provides single point management for all Hitachi physical and virtual storage, and it acts as the interface for integration with other systems.
- **Dynamic Provisioning** provides thin provisioning for simplified provisioning operations, automatic performance optimization and storage space savings.
- **Dynamic Link Manager Advanced** provides advanced SAN multipathing with centralized management.
- **Storage Navigator 2** facilitates storage system maintenance functions.
- **Performance Monitor** provides an intuitive, graphical interface to assist with performance configuration planning, workload balancing, and analyzing and optimizing storage system performance.
- **Cache Partitioning** supports up to 4 cache partitions.
- **Storage System-based Utilities** include: LUN Manager/LUN Expansion, LUSE, Virtual LVI/LUN Manager (Customized Volume Size), Volume Port Security and Volume Security Port Options, Audit Log, Command Control Interface (CCI), Volume Shadow Copy Service (VSS) support and Volume Shredder.

Hitachi Basic Operating System V

- **Universal Volume Manager** enables virtualization of external heterogeneous storage.
- **Expanded Cache Partitioning** supports up to 32 partitions.

- Allows tuning to minimize logical device contention, I/Os and operating system queuing

Automate Storage Management

- Automates repeated tasks via CLI or XML requests to reduce administrative expense and risk of error from manual processes

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 alignment of storage to your business requirements. Our assessment, planning and design, installation, management and support services leverage Hitachi Basic Operating System to optimize alignment of storage to business requirements and support on-demand storage models for your business customers.

Distance learning and hands-on training classes are also available and recommended for all products, on your site or at our training centers.

Complementary Solutions

- Hitachi Dynamic Tiering
- Hitachi Tuning Manager
- Hitachi Command Director
- Hitachi Tiered Storage Manager
- Hitachi Replication Manager
- Hitachi data resilience products

System Requirements and Support

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



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