

Flexible Storage Data Management Options Allow You to Evolve as Your Business Grows.

DATASHEET

Base and Advanced Software Packages for Hitachi Virtual Storage Platform Midrange¹ Storage

Improved Speed of Resource Delivery and Operational Efficiency

Hitachi midrange storage has flexible data management options to allow you to evolve as your business grows. The VSP embedded management delivers simplified system configuration and setup, ideal for single system environments. Or choose Hitachi's Ops Center management for comprehensive administration, analytics, automation, and data protection capabilities across the entire VSP F series, G series and E series families. You can start with VSP Embedded Management and evolve to Hitachi Ops Center as your business and infrastructure grows.

VSP Midrange Foundation/Base² Software Package

This foundation/base software package comes standard with the VSP F/G and VSP E series midrange storage. It combines the core Hitachi Storage Virtualization Operating System RF (SVOS RF) with VSP Embedded Management and the Hitachi Vantara Ops Center management suite.

VSP Embedded Management: Rapid Storage Setup

Hitachi VSP Embedded Management provides simplified, rapid system configuration and setup of the VSP E series arrays with the ability to provision storage within minutes as well as providing array-based monitoring for basic troubleshooting.

Local Replication: Protect and Accelerate Business

Hitachi Local Replication provides snapshots and local mirroring to protect and accelerate copy creation and use. Snapshots create space-efficient, point-in-time backups to protect against data loss. Local mirroring increases protection by creating a secondary copy of data on the array. To accelerate business use, snapshots can be cloned for business reporting, dev/test, and rapid system roll-out.

Data Mobility²: Optimize Performance and Efficiency

Hitachi Data Mobility with Hitachi Dynamic Tiering software can automatically and transparently move data across storage tiers, maximizing application performance while minimizing costs. Support for different storage media, configurations, and virtualized third-party arrays lets you meet a broad range of price-performance objectives and easily migrate off older, slower storage arrays. Non-disruptive migration enables the rapid transition from older to newer Hitachi storage without interrupting hosts. Data Mobility is provided with the VSP F/G series only.

Universal Volume Manager: Storage Virtualization

Hitachi Universal Volume Manager enables you to connect volumes in external storage systems to your storage system and manage those volumes as if they were one system. Using storage virtualization allows SVOS to consolidate and virtualize over 100 different types of storage arrays for superior IT efficiency.

¹ VSP Midrange: VSP F series, VSP G series and VSP E series

² "Foundation Package" software name changed to "Base Package" with E series

Hitachi Ops Center Administrator: Unified Storage Configuration Management

Ops Center Administrator provides comprehensive and customizable configuration and resource delivery across multiple VSP storage systems. Ops Center Administrator is fully integrated with the Analytic, Automation, and Copy Data Management elements of Hitachi Ops Center.

Hitachi Ops Center Analyzer: Monitor, Identify and Resolve IT Events

Ops Center Analyzer software enables IT monitoring and analysis of your data center at scale with machine learning insights. This software helps to optimize service levels, pinpoint problems, and aid in troubleshooting issues so that you can fix problems faster.

Hitachi Ops Center Protector: Modern Data Protection

Ops Center Protector software automates and orchestrates a broad range of data copy and movement technologies to deliver enterprise-level copy data management services. Recovery copy services support local and remote recovery requirements using modern data protection techniques. Agile copy services automate and control the repurposing of data copies for secondary business efforts. And governance copy services enable the use of backup data for discovery and analytics operations.

TABLE 1: VSP Midrange Foundation/Base Software Package

FOUNDATION/BASE PACKAGE OPEN SYSTEMS	
VSP embedded management	<ul style="list-style-type: none">• Rapid storage setup and provisioning
Storage Virtualization Operating System RF (SVOS RF)	<ul style="list-style-type: none">• Hitachi Universal Volume Manager for storage virtualization• Hitachi Local Replication for snapshots and cloning• Hitachi Data Mobility for tiering between storage arrays and media types
Hitachi Ops Center	<ul style="list-style-type: none">• Ops Center Administrator for simple, GUI system management• Ops Center Analyzer for VM to storage insights• Ops Center Protector for enterprise data copy management

VSP Midrange Advanced Packages

Hitachi Vantara offers the advanced package for the VSP F/G series and VSP E series for IT organizations with demanding uptime requirements, advanced scaling needs, and data center operations. Remote replication and metro-clustering software enable the delivery of continuous, scalable data access. Intelligent automation software enables orchestrated provisioning of resources that reduce operational overhead and risks of potential errors. The advanced package includes all base package software plus the following software modules:

Remote Data Protection: Business Continuity

Hitachi Remote Replication includes asynchronous replication for long-distance, disaster recovery, and synchronous replication for metropolitan-area recovery with zero data loss. When combined in a 3 data center configuration, these technologies provide maximum business resiliency.

Global Active Device: Nonstop, Scalable Data Access

The global-active device (gad) feature creates an active-active metro cluster that spans up to 500km. All changes to data are mirrored in real-time for nonstop, uninterrupted data access. Unlike other solutions, gad provides read and write access to both sides of the cluster for scalable application performance.

Automation: Reduce IT Delivery Time and Risk

Hitachi Ops Center Automator orchestrates automated provisioning workflows and operations for consistent, error-free delivery of IT resources to business applications. With application-specific templates and intelligence to optimize flash resource delivery, Ops Center Automator reduces operational overhead by 70%, improves resource utilization, and prevents errors to speed new application resource deployments.

Hitachi Ops Center Analyzer Predictive Analytics²

Forecasts future resource capacity and performance requirements using ML-based data analytics for improved planning and budgeting. Predict when and where upgrades are needed. Evaluate a proposed resource configuration to assess its potential impact and verify effectiveness prior to implementation. Analyzer Predictive Analytics is included in the E series advanced package only.

TABLE 2: VSP Midrange Advanced Packages

ADVANCED PACKAGE OPEN SYSTEMS	
All Base package features plus:	
Storage Virtualization Operating System RF (SVOS RF)	<ul style="list-style-type: none">• Remote Data Protection for replication and disaster recovery• Global Active Device for business continuity and metro clustering
Hitachi Ops Center	<ul style="list-style-type: none">• Ops Center Automator workflow automation and orchestration• Ops Center Analyzer Predictive Analytics³

³ VSP E series only

VSP Midrange Additional Software Purchase Options

There are multiple software options for the F/G series and E series storage. These options are either incremental capabilities, such as Analyzer Viewpoint, or provide extended infrastructure support as with Ops Center Automator and Analyzer Node Licenses.

Hitachi Ops Center Analyzer Viewpoint

Hitachi Ops Center Analyzer viewpoint delivers a central IT operations dashboard across multiple data centers, enabling new enterprise-wide insights of capacity, performance, and system health for Hitachi Virtual Storage Platforms (VSP).

Hitachi Ops Center Analyzer Third-Party Storage

In addition to monitoring and collecting data from Hitachi Enterprise storage, you can also install probes for third-party storage systems such as those from EMC, HPE, IBM NetApp, and Pure.

Hitachi Ops Center Analyzer Predictive Analytics²

Forecasts future resource capacity and performance requirements using ML-based data analytics for improved planning and budgeting. Predict when and where upgrades are needed. Evaluate a proposed resource configuration to assess its potential impact and verify effectiveness prior to implementation. Analyzer Predictive Analytics is included as an additional purchase option with the G/F series only.

Hitachi Ops Center Protector Application Protection

Enables application-consistent recovery, in any location, orchestrating non-disruptive snapshots and clones; support built-in for Oracle database, VMware, and vSphere. Support for other databases and applications through scripting.

Hitachi Ops Center Protector Backup

Provides host-based backup for Microsoft Windows, IBM® AIX®, Oracle Solaris, and RedHat, SUSE and Oracle Linux operating systems.

Hitachi Ops Center Analyzer Nodes

With the Ops Center Analyzer Node packs, data collection and predictive analytics are expanded to include physical servers, Hypervisors, OS instances, and switches. The inclusion of these resources enables Analyzer to deliver end-to-end resource optimization, improved utilization, and automation.

Hitachi Ops Center Automator Direct and Proxy Nodes Packs

With the Ops Center Automator Node packs, licensing is extended to allow for beyond storage automated workflows, including resources such as physical servers, Hypervisors, OS instances, and switches.

TABLE 3: VSP Midrange Additional Software Purchase Options

ADDITIONAL SOFTWARE OPTIONS OPEN SYSTEMS	
Purchased Separately	<ul style="list-style-type: none">• Hitachi Ops Center Analyzer Viewpoint• Hitachi Ops Center Analyzer Third-Party Storage• Hitachi Ops Center Application Protection• Hitachi Ops Center Protector Backup• Ops Center Analyzer Predictive Analytics⁴
Nodes Licenses	<ul style="list-style-type: none">• Ops Center Automator Direct and Proxy Nodes Packs• Ops Center Analyzer Nodes Packs

⁴ Available as additional SW option on E series if advanced package not purchased



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