Datasheet

Accelerate the speed of business with software-defined storage, driving agility and savings.

Hitachi Virtual Storage Platform One Software Defined Storage (SDS) Block provides software-first storage innovation for block applications across the hybrid cloud.

Experience enterprise class data freedom by deploying SDS Block on-premise or in the cloud.

As the number and types of enterprise and cloud workloads increase, so do their demands on infrastructure. Storage must be agile enough to support traditional and modern databases, applications, virtual machines, and containers everywhere.

Hitachi can help with our VSP One solutions, including VSP One SDS Block storage software that runs on vendor agnostic infrastructure on-premises and in the public cloud.

SDS Block complements and extends your VSP One solution by simplifying deployment, management, and migration operations.

Experience total data freedom and gain a better ROI by running SDS Block on industry standard infrastructure on-premises and in the public cloud. Every container, virtual machine, database, and distributed block applications can experience Hitachi VSP One storage with SDS Block.

Unleash Productivity to Accelerate Growth

Replace expensive hardware procurement cycles with enterprise-class, software-first innovation—leveraging IaC, integrated CI/CD, and ITSM to deliver petabyte-scale, flexible capacity and granular performance for low-latency application requirements.

Eliminate Silos with a Common Platform

Migrate and replicate block data between different systems—including to and from VSP One block arrays—onto a single hybrid cloud platform with AI-powered administration and automation for predictive, business-driven operations and decisions. This reduces your storage footprint and frees enterprise and cloud infrastructure staff to focus on key initiatives that drive the company forward.

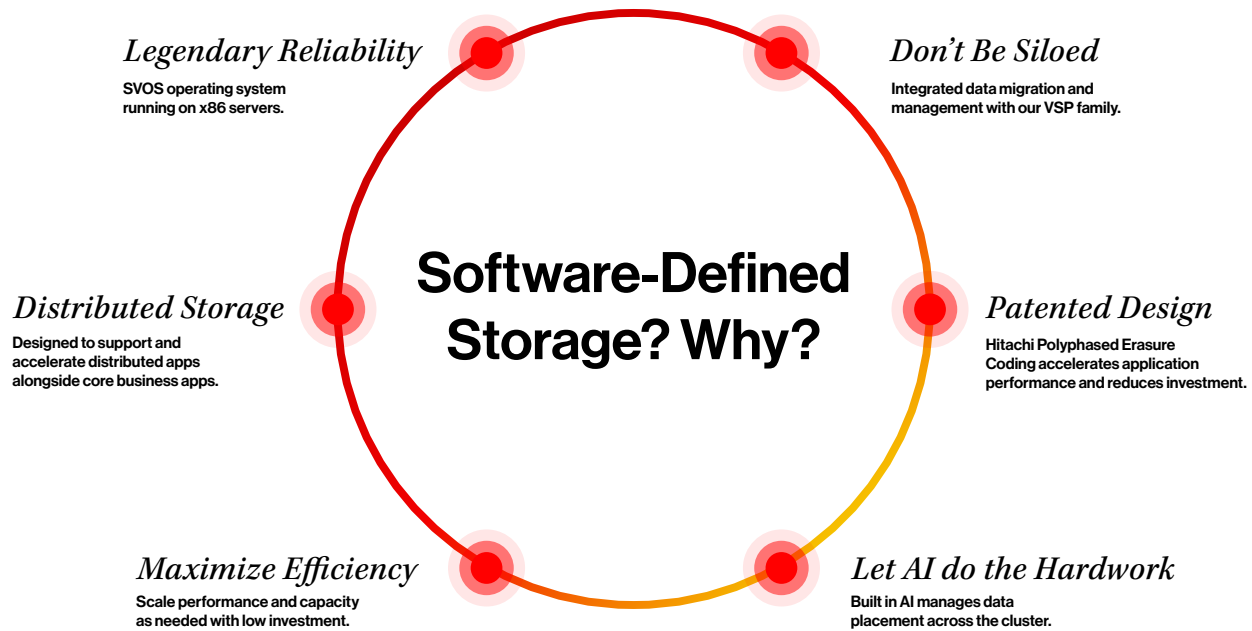## Improve Serviceability to Reduce Risks and Gain a Better ROI

Use patented Hitachi Polyphase Erasure Coding (HPEC) for accelerated performance and enhanced data protection. Leverage trusted Hitachi business continuity strategy for seamless data mobility and governance across your organization.

Meet Software-defined Storage Requirements

With SDS Block, you deliver enterprise class storage to traditional and modern block-based workloads, ranging from legacy databases to cloud-native applications.

SDS Block runs on vendor agnostic infrastructure, virtual machines, and containers across your hybrid cloud. You can scale terabytes to petabytes and have the flexibility to scale performance and capacity independently. With support for Multi Availability Zones you can enhance the flexibility, scalability and performance across your hybrid cloud environment.

Legendary Reliability

SVOS operating system running on x86 servers.

Don't Be Siloed

Integrated data migration and management with our VSP family.

Software-Defined Storage? Why?

Distributed Storage

Designed to support and accelerate distributed apps alongside core business apps.

Patented Design

Hitachi Polyphased Erasure Coding accelerates application performance and reduces investment.

Maximize Efficiency

Scale performance and capacity as needed with low investment.

Let AI do the Hardwork

Built in AI manages data placement across the cluster.

Same Data Fabric for On-premises and Cloud

Enable your distributed block applications to consume the data they need from anywhere across your infrastructure with a single data fabric.

You can deploy SDS Block software on-premises using customer infrastructure and in the cloud using AWS, Google Cloud Platform (GCP), or Microsoft Azure infrastructure. SDS Block on AWS, Google Cloud Platform (GCP), or Microsoft Azure integrates with VSP One storage on-premises allowing applications to migrate seamlessly across your hybrid cloud.

AI Powered Common Data & Control Planes

VSP One solutions share the Hitachi Storage Virtualization Operating System (SVOS) data plane and VSP 360 control plane, so SDS Block works the same everywhere—across your edge, core, and cloud environments.

The shared SVOS data plane allows data to flow across databases and applications, and the shared Ops Center control plane centralizes VSP One management.

API first integrations for containerized platforms like Kubernetes gives you flexibility and agility in provisioning and managing persistent storage.

Unstoppable Agility

Software-first innovation designed for petabyte scale for block-based applications across multiple deployment choices. Muli Availability Zones enhance flexibility, scalability and performance across hybrid clouds.

Enhanced Data Services

An always-on data availability across the cluster improves access and erasure coding accelerates performance and ensures data protection. Replication ensures scalable data transfer across on-premises, AWS, Azure, and GCP.

Automated Orchestration

Extend the same VSP One experience with AI powered common management to optimize operations across the hybrid cloud.

Disaster Recovery

Advanced disaster recovery supports automated, low-latency replication and failover, ensuring business continuity and operational resilience without performance compromise.

Accelerate the speed of business with software-defined storage, driving agility and savings.

Improve Serviceability to Reduce Risks and Gain a Better ROI

Experience the same VSP One trusted Business continuity strategy with our legendary Hitachi Reliability, Availability, and Serviceability (RAS) self-healing capabilities ensures data access across the cluster and that it remains accurate, and applications are performing consistently.

Integrated disaster recovery automation now empowers you to rapidly failover workloads and data between availability zones or regions. This delivers cost-effective, flexible business continuity options without the need for a secondary physical data center.

Your distributed block applications receive industry leading 99.999% availability irrespective of their SDS deployment choices.

Your data is your lifeline. It needs the highest security framework. Migrate data securely to the public cloud with DARE Encryption available on our SDS Cloud offering.

Patented Hitachi Polyphase Erasure Coding

Unique Hitachi Polyphase Erasure Coding (HPEC) data protection technology increases capacity and accelerates performance. HPEC features a different approach than traditional RAID, improving data and parity placement to lower latency and storage resource overhead.

Cloud-based Observability of Storage Resources

You can monitor and optimize system health from anywhere—across block, file, or object storage. With our global Remote Ops software, you get AI-driven analytics for informed decision making. Cloud-based observability and management now span multiple clouds (AWS, Azure, GCP) and on-premises deployments—delivering unified health, compliance, performance, and DR reporting from a single pane of glass.
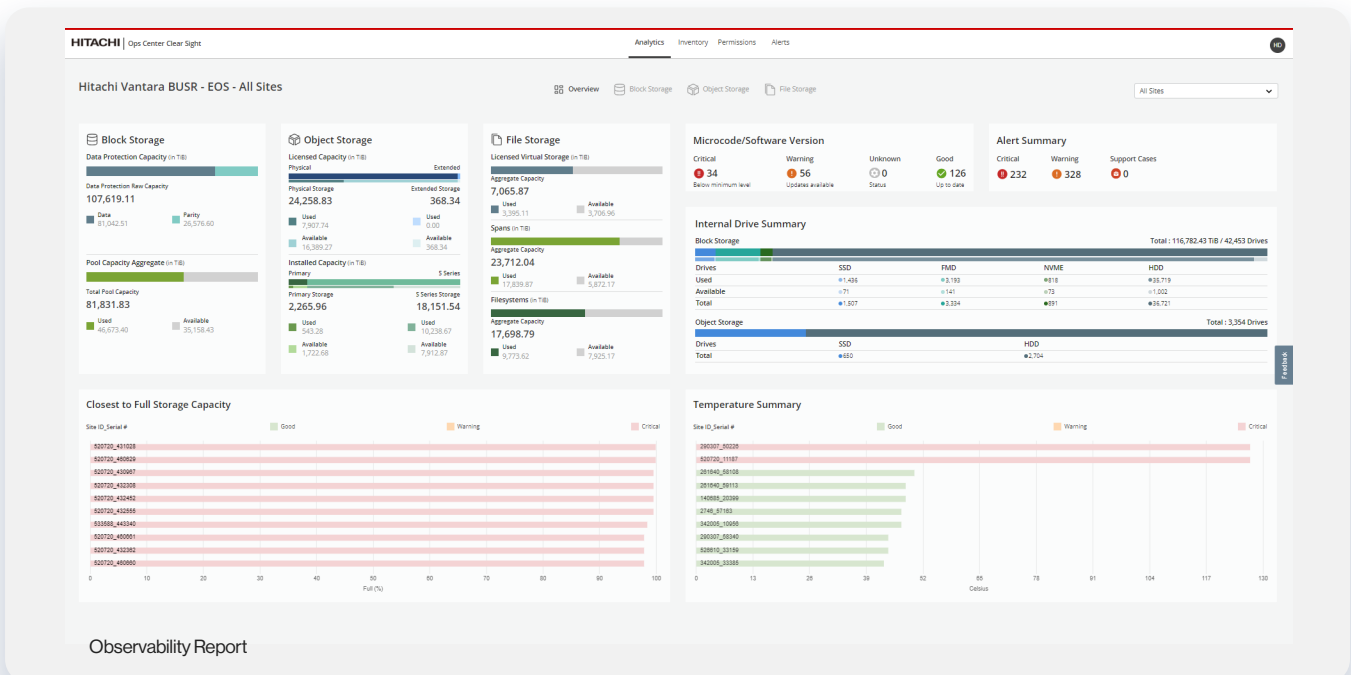
Choice of Deployment Options

You have the flexibility to deploy SDS Block software on-premises (on physical servers or virtual machines) or quickly provision in the cloud through the AWS, Azure, and GCP Marketplaces—delivering a consistent storage layer across your hybrid and multi-cloud environment. For a colocation option, we offer integrations with Terraform.

Global Leaders Trust Hitachi Vantara

The reliability of Hitachi Vantara storage is legendary. That's why 90% of the world's top banks and 85% of Fortune 100 companies use VSP One storage solutions to support their open systems and mainframe environments.

Advanced Hybrid Cloud Capabilities

SDS Block offers multiple autonomous zones (AZs) and replication for flexibility, scalability, and performance across hybrid clouds. With these features you can increase the benefits and control of your data infrastructure.

Observability Report

About Hitachi Vantara

Hitachi Vantara is transforming the way data fuels innovation. A wholly owned subsidiary of Hitachi Ltd., we're the data foundation the world's leading innovators rely on. Through data storage, infrastructure systems, cloud management and digital expertise, we build the foundation for sustainable business growth.

Download and test drive our free 90-day software trial.

Learn more →

Hitachi Vantara