Hitachi Vantara

A Buyer's Guide to Hitachi Vantara Virtual Storage Platform One SDS

Accelerate Development, Simplify Migration, Enhance Performance

Executive Summary

IT Organizations today continue to struggle with managing large amounts of data across complex, distributed (often siloed) environments. Many worry their current infrastructure can't scale to meet future demands and still be manageable. This challenge leaves them vulnerable to outages and inefficiencies.

Hitachi Vantara's Virtual Software Platform One -Software Defined Storage (VSP One SDS) solution offers a unified data platform that seamlessly integrates block, file, and object storage across on-premises and cloud environments.

With AI-powered common data and control planes, patented Hitachi Polyphase Erasure Coding, (HPEC) and flexible deployment options, VSP One SDS enables intelligent workload management across the hybrid cloud, superior fault tolerance, and enhanced performance.

Table of Contents

Why VSP One SDS?

VSP One SDS delivers a powerful solution for managing data across hybrid cloud environments. It provides software-first storage innovation designed to meet the demands of modern applications and their data.

Key Features

- **Software-First Innovation:** Replace costly hardware cycles with flexible, enterprise-class solutions for petabyte-scale storage.
- **Eliminate Silos:** Unify block data across a single platform with AI-powered and API capable administration, reducing storage footprints and freeing staff for strategic initiatives.
- **Enhanced Serviceability:** Use patented Hitachi Polyphase Erasure Coding (HPEC) for improved performance and data protection.

VSP One SDS is Ideal For

- **Application Development and Testing:** Offers agile storage resources for DevOps teams.
- **Distributed Applications:** Ensures data availability across diverse environments.
- **Cloud Migration:** Ensures seamless data transfer between on-premises and cloud infrastructures.

With VSP One SDS, organizations can achieve greater data scalability and flexibility, streamline management, and support their digital transformation initiatives while optimizing costs and improving ROI.

Streamline storage operations and reduce costs with VSP One SDS. Simplify data management across hybrid cloud environments, enhance performance, and eliminate silos.

Use Case:
Application Development and Testing

Application development and testing teams struggle to quickly provision and manage storage resources for diverse testing environments, leading to delays and increased costs.

Hitachi Vantara VSP One SDS solution addresses these challenges by offering rapid provisioning, using APIs and policy as code, of storage resources and the flexibility to scale capacity and performance independently with separate data and control planes.

It supports both traditional (legacy database) and modern (AI/ML) block-based workloads, providing AI-powered administration for efficient resource allocation. The solution seamlessly integrates with containerized platforms like Kubernetes and offers a consistent storage layer across hybrid cloud environments. By implementing Hitachi Vantara VSP One SDS solution, organizations can:

- Accelerate development cycles
- Improve resource utilization
- Enable faster, more efficient application testing and deployment

This approach not only streamlines the development process but also helps optimize costs and improve overall productivity in application development and testing environments.

Use Case:
Distributed Applications

For most enterprises there some significant challenges when managing distributed applications across storage environments. Existing storage solutions don't always have the adaptability and scalability they need. Existing solutions typically have performance issues and a certain amount of operational complexity. This translates into:

- Slower application responses
- Data inconsistencies
- Lower performance visibility
- Less data mobility across distributed systems

Hitachi Vantara's VSP One Software Defined Storage (SDS) solution removes these challenges by providing a unified platform designed for distributed applications. It ensures smooth data access and management across edge, core, and cloud environments, supported by AI-driven common data and control planes.

With VSP One SDS, you can enhance application performance, simplify management processes, and maintain data consistency across distributed environments.

Use Case:
Cloud Migration

Enterprises are continuing to move workloads to the cloud, which requires efficient data migration strategies. However, storage solutions and applications often don't have the flexibility and scalability needed for a seamless cloud migration. This can lead to additional data silos, multiple storage locations, and complex non-integrated management infrastructure.

Hitachi's Vantara's VSP One SDS solution addresses these challenges by offering seamless data transfer between on-premises and cloud infrastructures. It provides common data and control planes across hybrid cloud environments, along with async replication for efficient on-prem to cloud data transfer.

The solution offers flexible deployment options on-premises and in public clouds like AWS, ensuring a single consistent storage layer across hybrid cloud environments. With AI-powered management for optimized operations, Hitachi's Vantara's VSP One SDS:

- Simplifies cloud migration
- Ensures data consistency, and
- Eases hybrid cloud management

Hitachi Vantara's VSP One SDS solution ensures success for enterprises pursuing cloud migration initiatives, offering simple seamless data transfer and management across hybrid environments.
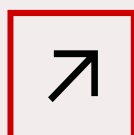
Embrace the Future of Storage with VSP One SDS

Application Development and Testing

Accelerate development cycles and improve resource utilization with rapid provisioning, flexible scaling, and seamless integration with containerized platforms like Kubernetes.

Learn More ↗

Distributed Applications

Ensure consistent, high-performance storage access and simplified management across edge, core, and cloud infrastructures, improving overall application responsiveness and data consistency.

Learn More ↗

Cloud Migration

Streamline data transfer between on-premises and cloud environments with seamless replication, flexible deployment options, and a consistent storage layer across hybrid cloud infrastructures.

Learn More ↗

Simplify operations and reduce costs with Hitachi's Software Defined Storage (SDS). Simplify data management across hybrid cloud environments, enhance performance, and eliminate silos. Experience the agility to meet evolving business needs while optimizing your storage infrastructure.

Discover more information about Hitachi Vantara VSP One SDS →

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.

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