Hitachi Vantara

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

Resilient, Reliable, Sustainable, and Secure

Executive Summary

With organizations struggling to scale data and modernize applications within complex, distributed, multi-cloud infrastructure, the need for a trusted comprehensive data platform solution across all storage needs and data types has never been more critical.

Secure, compact, and hybrid cloud-ready, Hitachi Vantara Virtual Storage Platform (VSP) One Block simplifies data management while enabling enterprises to meet reliability and sustainability initiatives to fuel growth and innovation.

This guide explores how VSP One Block revolutionizes the data storage experience, reduces energy consumption, and mitigates risks such as downtime, productivity losses, and security threats.

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Why Virtual Storage Platform (VSP) One Block?

VSP One delivers structured and unstructured (block, file and software-defined) data solutions to meet even the most aggressive reliability and sustainability requirements. VSP One Block, the new compact data platform powerhouse, specifically enables organizations to:

- **Minimize Space and Costs:** The all-NVMe storage platform supports up to 1.8 PBe in just 2U, minimizing rack space and reducing power and cooling costs.
- **Simplify management:** Clear Sight observability and VSP One embedded management streamlines system setup and data management while gaining AIOps enhanced health monitoring.

- **Leverage media efficiencies:** The 4:1 No Questions Asked Effective Capacity Warranty lowers the total cost of ownership by ensuring that stored data meets capacity efficiency expectations with no questions asked.
- **Provide True Sustainability:** Adaptive Data Reduction (ADR) and Dynamic Carbon Reduction reduce energy consumption and help meet sustainability goals by lowering Kg of Co2 per TB per year.
- **Prioritize Security:** Thin Image Advanced eliminates threat exposure with always-available copies of production data and actively defends structured data against ransomware.

Hitachi Storage Virtual Operation System (SVOS) software simplifies storage management operations, enabling efficient scaling and the virtualization of third-party arrays to optimize storage from multiple vendors through a single data plane and common management control interface.
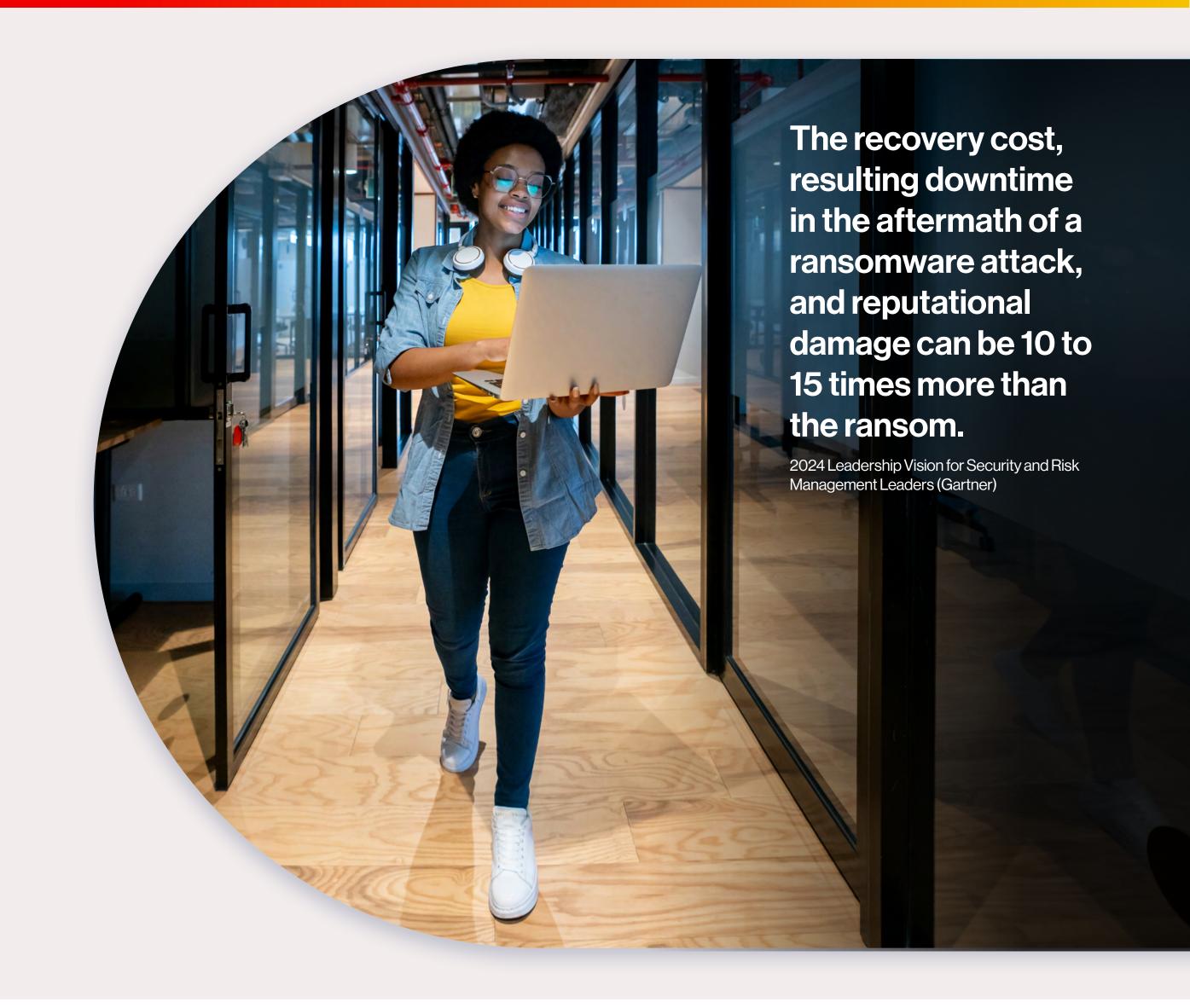
Use Case:
Optimize Your Mission-critical Applications

Experience total data freedom for all databases, applications, and workloads by turbocharging your mission-critical applications with the right storage infrastructure.

As a leader in multi-datacenter configurations, VSP One enables customers to move mission and business-critical workloads to modern cloud infrastructure with the high availability and business continuity solutions IT expects.

Guaranteed application resiliency ensures that data remains completely secured, continuously protected, and always available. More responsive applications optimize performance and user experiences, making it easier to meet Service Level Agreements (SLAs). Increased management automation minimizes the manual administration needed to support the data infrastructure for mission-critical applications.

The recovery cost, resulting downtime in the aftermath of a ransomware attack, and reputational damage can be 10 to 15 times more than the ransom.

2024 Leadership Vision for Security and Risk Management Leaders (Gartner)

Use Case:
Enable a Hybrid Cloud Data Platform

No hassle, no silos, and no limits. VSP One is an innovative, self-service, autonomous data storage platform that brings together the best of enterprise storage with the agility and scalability of the cloud. Featuring a single data plane and a cloud operating model, VSP One provides **scale, flexibility, agility, and speed**—no matter where data ultimately resides.

VSP One, in tandem with Hitachi Storage Virtualization OS (SVOS), delivers **100% data availability** for data infrastructure deployments.

Workload integration and continuous access to data make it easier to meet SLAs by minimizing downtime with advanced data protection and cyber resiliency features, including enterprise data protection, immutable storage volumes, redundant system components and failover capabilities.

Use Case:
Virtualize for Application Consolidation

To lower costs and improve productivity, organizations must **consolidate and centralize the day-to-day data management and operations oversight** of their applications and various workloads. They also need to ensure that storage is secure with unified access across the enterprise.

Virtualizing for application consolidation enables IT to non-disruptively **move assets from on-premises to the cloud or easily migrate workloads** when it's time to decommission older storage platforms.

VSP One provides further investment protection by enabling modern data management features to function on older existing storage arrays. The data platform allows IT to future-proof resources and consolidate storage silos by virtualizing third-party storage assets.

Only 19% of IT leaders have a robust data management strategy.

Results from a recent TDWI Data Management Maturity Assessment (DMMA)

Welcome to the New Era of Data Management

Virtual Storage Platform One Block

Hassle-free enterprise-class block storage with certified sustainability for mission-critical databases and applications.

Learn More ↗

Virtual Storage Platform One

A next-generation, all-in-one solution that powers infrastructure, data and apps without constraints.

Learn More ↗

Storage Virtualization Operation System (SVOS)

Superior resilience, data management and intelligent performance for Hitachi VSP One solutions.

Learn More ↗

At the heart of the VSP One data platform lies a unified data ecosystem that seamlessly integrates block, file, software-defined and cloud storage, eliminating data silos and fragmented landscapes. Powered by Hitachi SVOS, VSP One ensures that all data can be integrated, managed and accessible from any device or location, making it easier to access, view, and empower business operations.

The new VSP One Block 2U all NVMe storage appliance capabilities remove data platform complexity. Data reduction is always-on, Dynamic Drive Protection removes complicated RAID setups, and Dynamic Carbon Reduction delivers real-world power savings reductions.

Discover more information about Hitachi Vantara VSP One Block →

- **Simplified administration with easily accessible management and cloud-based observability.**
- **SVOS software delivers common data services.**
- **Hybrid cloud ready.**
- **Comprehensive cyber resiliency to protect data against ransomware.**
- **Legendary reliability – 100% ata availability. Guaranteed.**
- **Integration with VSP One software-defined storage solutions.**
- **Sustainability innovation with Dynamic Carbon Reduction + always-on Adaptive Data Reduction.**
- **4:1 "No Questions Asked" effective capacity warranty.**

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.