

Hitachi Vantara

eBook

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

Simple, Secure, Sustainable

Executive Summary

As organizations grapple with scaling data and modernizing applications in complex, multicloud environments, the demand for a reliable, all-encompassing data platform solution for diverse storage needs and data types has never been greater.

Secure, compact and cloud-ready, Hitachi Vantara Virtual Storage Platform One Block (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.



Why Virtual Storage Platform One Block?

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

Minimize space and costs. The all-NVMe storage platform supports up to 3.6PB in just 2U and scales up and out to 65 systems, minimizing rack space and reducing power and cooling costs.

Simplify management. Hitachi Virtual Storage Platform 360 (VSP 360) enables unified management operations across all VSP One data platforms. It ensures simplified system setup based on best practices with integrated AIOps observability to optimize data management operations.

Hitachi Storage Virtualization Operating System (SVOS) software simplifies storage management operations. SVOS enables unified data and control planes, to efficiently scale VSP One data infrastructures, including the virtualization of third-party arrays, to manage and optimize storage from multiple vendors.

Our Guarantees*

No Questions Asked Effective Capacity Guarantee. Reduces storage requirements with proven data efficiency. No exclusions — no fine print.

The Sustainability SLA Guarantee. Slashes energy costs and data center CO₂ footprint, and we guarantee that your power consumption will remain in budget.

The Cyber Resilience Guarantee. Ensures predictable, clean data recovery in seconds after a ransomware attack, minimizing downtime, data loss and reinfection risk, unlike standard SLAs.

Our legendary 100% Data Availability Guarantee. Delivers continuous data access to keep databases, applications and users online and productive.

The Performance SLA Guarantee. Delivers performance of <1 ms latency for your workloads.

Modern Storage Assurance. Uniquely offers 100% investment protection by enabling next-gen controller upgrades without data migration.

* Subject to Hitachi Vantara's terms and conditions; please contact your Hitachi Vantara Representative for details.

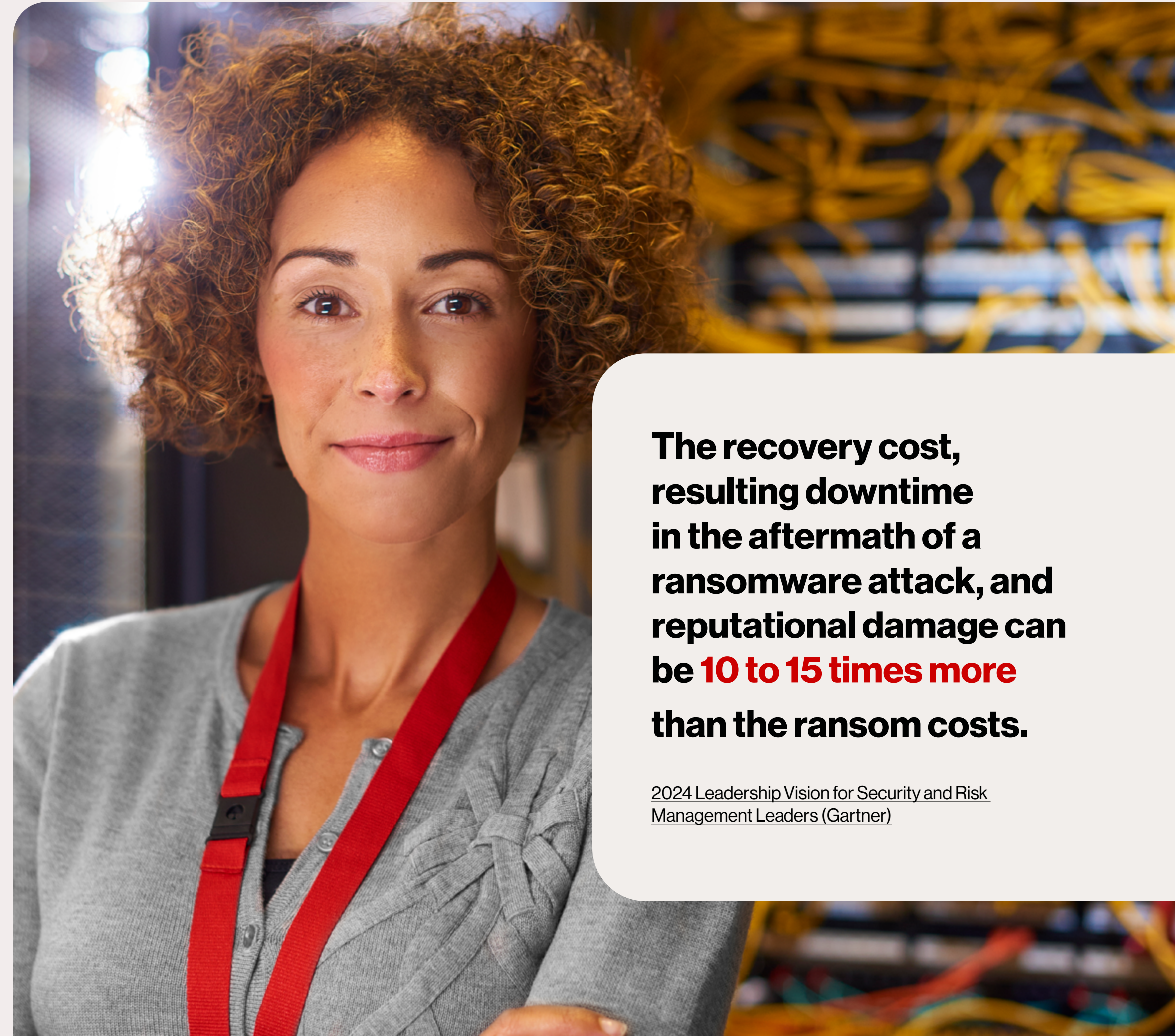
Use Case: Optimize Your Mission-Critical Applications

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-data-center configurations, VSP One enables you 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 your 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 automated management operations minimize the manual administrative tasks needed to support the data infrastructure for your mission-critical applications.

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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 costs.

[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 **scalability, flexibility, agility and speed** — no matter where data ultimately resides.

VSP One in tandem with 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-level high availability, immutable storage volumes, redundant system components and failover capabilities.

Use Case: Virtualize for Application Data 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.

Storage virtualization for data consolidation enables IT to nondisruptively **move assets from on-premises to software-designed storage or easily migrate workloads** when it's time to decommission older storage platforms.

VSP One provides further investment protection by enabling modern data services 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)

Products: 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 360

Unified data management software that controls, observes and governs VSP One data solutions without constraints.

[Learn More →](#)

Storage Virtualization Operating System (SVOS)

Superior data services, resiliency and optimized performance for VSP One data platforms.

[Learn More →](#)

Virtual Storage Platform One SLAs and Guarantees*

Reliable, scalable storage solutions with tailored guarantees that directly address your specific business challenges.

[Learn More →](#)

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- VSP 360 simplifies administration with unified management operations to efficiently control, observe and govern VSP One data solutions.
- SVOS software delivers common data services.
- The solution is hybrid cloud ready.
- Comprehensive cyber-resiliency capabilities protect data against ransomware.
- Legendary reliability — 100% data availability — is guaranteed.**
- The solution easily integrates with VSP One software-defined storage solutions.
- Innovative dynamic carbon reduction plus always-on adaptive data reduction capabilities champion sustainability.
- You're covered with 4:1* Effective Capacity Guarantee** — no questions asked.

* VSP One Block 26 and 28 models only

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At the heart of the VSP One data platform lies a unified data ecosystem that seamlessly integrates block, file, object, software-defined and cloud storage, eliminating data silos and fragmented landscapes. VSP 360 complements VSP One, ensuring that all data can be integrated, managed and accessible from any device or location, and making it easier to access, view and empower business operations.

The 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.



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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.