

Datasheet

Remove the Chaos of Data Complexity With Virtual Storage Platform One Block Storage Appliance

Virtual Storage Platform One Block (VSP One Block) offers hassle-free enterprise-class block storage with certified sustainability for mission-critical applications.

Midrange storage is mission-critical infrastructure that must overcome complex challenges: It needs to address unparalleled data growth and increasingly distributed infrastructure. It must prioritize eco-friendly data center products to achieve sustainability goals. It has to handle diverse workloads and user requirements, and it needs to allow modernization of data center infrastructure without data migrations.

Mixing different systems from multiple vendors to meet diverse workload requirements creates problems. Today's businesses need midrange storage with the highest availability, capacity and performance to support all workloads.

Introducing VSP One Block

Hitachi Vantara has designed VSP One Block to deliver enterprise-class block storage for all mission-critical data workloads, from legacy databases to modern applications. Its NVMe all-flash scalable architecture with symmetric active-active controllers ensures you can use VSP One Block to efficiently accelerate and consolidate workloads at any scale.

VSP One Block makes reimagining midrange storage possible using a "do more with less" budget.

Simple and Flexible Management Approach

VSP 360 offers a unified management approach to streamline and optimize data management operations for the VSP One family.

Gain new AIOps visibility across your data infrastructure to make informed decisions and better control, observe and govern your data solutions throughout the data life cycle. For simple data platform deployments, you can utilize the integrated VSP One systems administration capabilities for fast system setup, based on best practices, to accelerate new storage resource delivery.

Easily Scale Data Capacity and Storage Performance

Consolidate your storage silos now and meet your capacity and performance requirements in the future. VSP One Block starts as small as a single appliance occupying two data center

VSP One Block Specifications

- 3.6PBe and 32 host ports in 2 rack units
- Gen 7 Fibre Channel
- 4:1* No Questions Asked Effective Capacity Guarantee
- 100% Data Availability Guarantee across the entire portfolio
- 256GB/s Fibre bandwidth
- TLC or QLC solution

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* For VSP One Block 26 and 28 models; actual data reduction rates will vary.

rack units. When you are ready, you can scale out by adding up to 64 more appliances and scale up by adding up to 2 NVMe drive expansion shelves per appliance.

Efficient Data Reduction That Doesn't Slow Storage Performance

Hitachi Vantara provides our patented adaptive data reduction capability to increase effective capacity without slowing storage performance. VSP One Block continuously analyzes data during writes and selects and switches between real-time and deferred processing for data reduction. This is automatic, with real-time processing the default choice, so there's nothing to manage.

Choosing a VSP One Block model with Compression Accelerator Modules (CAMs) offloads data reduction processing workloads from controller processors.

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Automated Energy Optimization and Validations to Sustainability Standards

At Hitachi Vantara, our culture of innovation includes a commitment to helping you achieve your sustainability goals and environmental, social and governance (ESG) objectives. Patented Dynamic Carbon Reduction (DCR) technology optimizes power consumption by switching controller CPUs into low-power ECO mode during periods of low activity. Also, VSP One Block is Carbon Footprint of Products (CFP) approved.

Extend service life cycles and minimize electronic waste with Hitachi Modern Storage Assurance.

Support Mission-Critical Applications With Continuous Data Availability and Security

VSP One Block has been unbreakable for more than 20 years. Legendary reliability for mission-critical, enterprise-class workloads is made possible by patented Hitachi technologies. For example, global-active device enables active-active clustering across storage in two distant locations, ensuring continuous data availability even during catastrophic events.

Hitachi Thin Image Advanced snapshots create instant point-in-time copies for data protection, application testing and data mining. Thin Image Advanced snapshots store only the changed data, so the storage capacity required for each snapshot copy is significantly reduced. Thin Image Advanced eliminates threat exposure with always-available copies of production data and actively defends structured data against ransomware.

Depend on Hitachi Vantara for continuous data availability and data security against ransomware.

Increase Application Consolidation With AI-Simplified Data Management

VSP One Block makes consolidation more efficient and effective by supporting all mission-critical databases and applications, and block storage workloads with a single platform. Maintaining existing silos of customized hardware

and software for different databases and applications has become too costly, and this is driving rapidly growing or out-of-control infrastructure costs.

Consolidating storage infrastructure with VSP One Block significantly reduces data center expenses.

Enable Hybrid Cloud by Combining VSP One Block With VSP One SDS Cloud

Building, deploying and running modern cloud-native applications becomes straightforward when using VSP One enterprise-class block storage across on-premises and public cloud data centers. VSP One Block is a private cloud solution that transforms into a hybrid cloud when combined with VSP One SDS Cloud.

Your entire VSP One solution, whether private or hybrid cloud, can be managed with VSP 360.

VSP One Guarantees: Proven Results. Guaranteed Outcomes.

- **Cyber Resilience Guarantee:** Delivers predictable continuity with clean data recovery in seconds after a ransomware attack for VSP One Block midrange and high-end — guaranteed — reducing downtime and data loss, unlike standard SLAs.
- **Performance SLA Guarantee:** Guarantees performance of <1 ms latency for customer workloads.
- **Sustainability SLA Guarantee:** Slash energy costs and data center CO₂ footprint with VSP One, and we guarantee that your power consumption will remain in budget.
- **100% Data Availability Guarantee:** Continuous data access keeps databases, applications and users online and productive.
- **No Questions Asked Effective Capacity Guarantee:** Reduces storage requirements with proven data efficiency — no exclusions, no fine print.
- **Modern Storage Assurance:** Future-proofs your customers' investment by enabling next-gen controller upgrades without data migration.

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HV-BTD-DS-VSP-One-Block-30April25-B