

Solution Profile

Modernize Your Environment With VSP One Object

Transforming object storage



Data Lakehouse Ready

Amazon S3 compatibility, on-premise native S3 Table, and Apache Iceberg support power fast, open, and scalable analytics

AI/ML and Analytic Workloads

Support for all-NVMe VSP One Block midrange delivers high-performance, cost optimized storage for AI/ML and analytics with intact VSP One Block guarantees

Data Protection and Retention

Modern object storage offers scalable, cost-efficient data protection and long-term retention with flexible access, durability and simplified management

Unstructured Data Is Exploding — And Legacy Storage Systems Cannot Keep up With the Scale, Speed and Flexibility Today's Workloads Demand

Today's data-driven enterprises face a growing challenge: how to manage, store, and extract value from ever-expanding volumes of unstructured data. Whether you're building a modern data lakehouse, powering AI/ML and analytics, or ensuring long-term data protection, traditional storage solutions often fall short — lacking the scalability, flexibility and efficiency needed to keep pace.

Organizations are under pressure to do more with less: reduce costs, meet sustainability goals and adapt quickly to changing workloads and business demands. At the same time, they need to ensure data is always available, secure and ready for innovation. The complexity of managing siloed infrastructure, unpredictable growth, and evolving compliance requirements only adds to the burden.

This is where modern object storage becomes essential. VSP One Object is transforming object storage from a passive archive into an active foundation for your business innovation." I'd like this to be consistent with the summary text from the new VSP One Object data sheet.

Read on to explore how a next-generation object storage platform can help you simplify operations, scale intelligently and unlock new value from your data. See how we can help you deliver it all — from on-premise native S3 table support to automatic personally identifiable information (PII) discovery to disaggregated compute and storage scaling and seamless integration with your existing QLC-based VSP One Block arrays.

We'll show how 20 years of Hitachi object storage innovation can help you meet today's challenges — and tomorrow's opportunities.

Managing Explosive Data Growth With Outdated Storage Is Unsustainable

Modern businesses need more than just storage — they need modern storage and a data foundation that can scale, adapt and perform.

This next-generation object storage solution is built to meet those demands. It supports massive scalability, flexible deployment models and the ability to independently scale compute and storage — giving you the agility to handle diverse

workloads like data lakehouses, AI/ML, analytics and long-term retention. By adopting modern object storage with native and open-format support — and seamlessly integrating with your existing VSP One Block midrange investment — you unlock the ability to simplify operations, cut costs and solve today's data challenges with a future-ready technology.

Designed with sustainability in mind and backed by 20 years of object storage innovation, our VSP One Object solution helps you simplify operations, unlock insights faster and future-proof your data strategy.

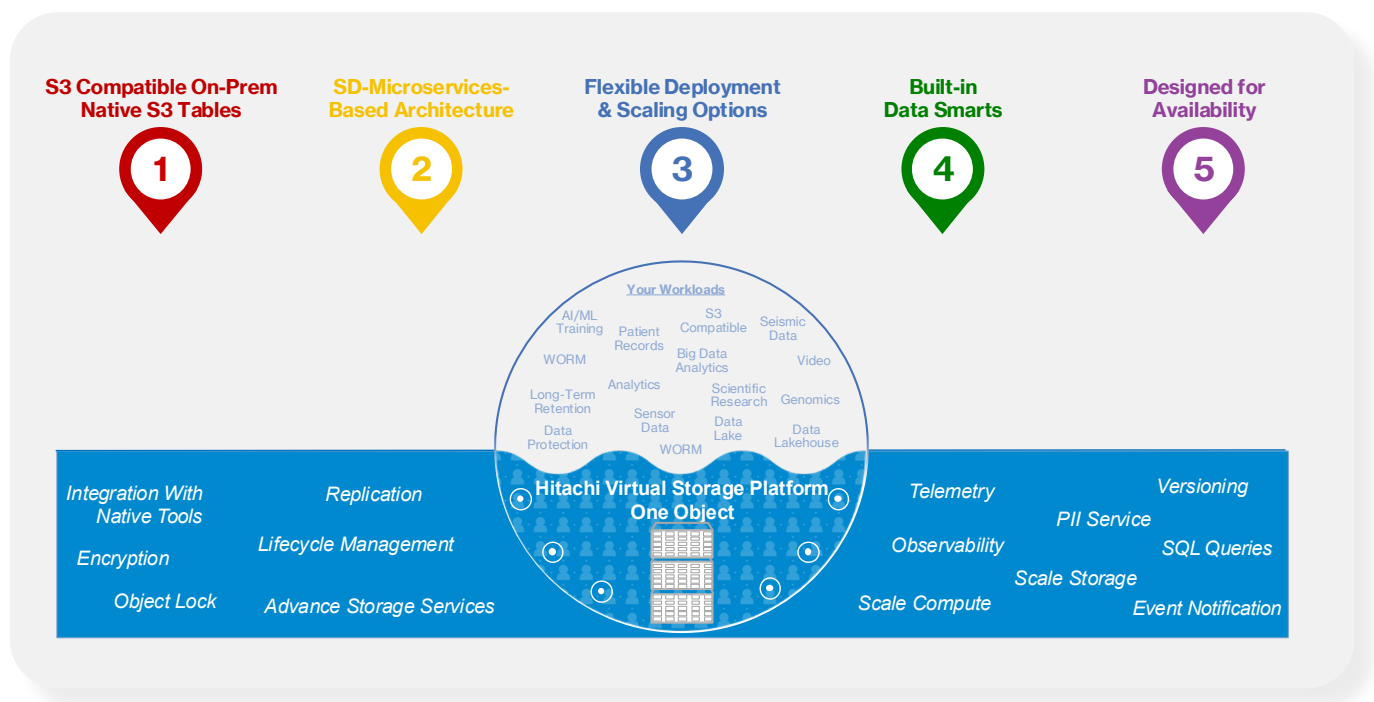


Figure 1: The VSP One Object Advantage.

VSP One Object Is Scalable, Flexible, Future-Ready Object Storage

Hitachi Vantara Virtual Storage Platform One Object (VSP One Object) is purpose-built to meet the demands of modern data environments. With on-premise native S3 table support and Apache Iceberg Catalog integration, VSP One Object integrates seamlessly into modern analytics and AI/ML pipelines — accelerating insights and enabling smarter, faster outcomes. For data protection, it provides durable, cost-effective storage that simplifies long-term retention at scale.

Designed for deployment flexibility, VSP One Object supports external capacity via S-nodes and QLC-based VSP One Block

midrange — giving you the freedom to meet your performance, density and budget requirements. Uniquely, it will allow you to use your existing VSP One Block arrays as backend storage, maximizing your current infrastructure investments. VSP One Object also allows for independent scaling of compute and storage to optimize performance and cost as your needs evolve.

Backed by over two decades of object storage innovation, VSP One Object combines proven reliability with next-generation capabilities. It empowers organizations to simplify operations, reduce costs and unlock the full value of their unstructured data — securely, sustainably and at scale.

Modern Storage for Modern Data Demands

VSP One Object delivers the scalability, flexibility and intelligence modern enterprises need to manage unstructured data at scale.

With its on-premise native S3 table support and Iceberg catalog integration, VSP One Object enables seamless integration with analytics and AI/ML workflows. Its open file format and automated PII discovery streamline data governance and compliance.

Organizations can maximize existing investments by using QLC or TLC based VSP One Block midrange arrays as backend storage. At the same time, disaggregated deployments and independent scaling of compute and storage optimize both cost/performance and sustainability.

Built on a software-defined, microservices-based architecture, VSP One Object offers the agility to adapt to evolving workloads. As our third-generation object storage platform — backed by over 20 years of innovation — it empowers you to simplify operations, reduce costs and unlock greater value from your data.

Features

Built-In Analytics With Native S3 Table Support

VSP One Object is first to market with on-premise native S3 Table and integrated Apache Iceberg catalog support. With this open file format a lightweight SQL engine, querying of S3 tables via SQL without additional configuration is fast, in-place, simple and economical.

Accelerates Analytics and AI Insights From Object Data

Flexible, Scalable Deployment Options

VSP One Object is designed to support flexible deployments — disaggregated or hyperconverged — scaling compute and storage independently. Disaggregated external storage is enabled via S-nodes or with VSP One Block midrange and hyperconverged internal capacity is planned for the future.

Adaptable to Your Infrastructure, Budget and Growth Needs

Automated PII Discovery and Action

The PII service automatically detects personally identifiable information (PII) and triggers actions to support data privacy and regulatory compliance.

Simplifies Data Privacy and Regulatory Compliance

Sustainability-Optimized Architecture

Smaller footprint, improved power efficiency, and lower CO₂ emissions help meet environmental and operational goals.

Reduces Environmental Impact and Operating Costs

Software-Defined Microservices Architecture

Modular, microservices-based design enables agile updates, rapid scaling and seamless integration with modern IT environments.

Delivers Agility and Future-Proof Infrastructure

Proven, Reliable Object Storage

Designed for high availability with advanced storage services to control how and where data is protected.

Protect Data Intelligently — Where and How It Matters Most

*Reduces rack space by 50-70% and improves power efficiency by up to 50% compared to other leading object storage vendors, significantly lowering data center CO₂ emissions.**

*This estimation is based on an internal analysis of VSP One Object with 2 system units and 24TB NLSAS drives, compared to other leading vendors in a comparable 10PB configuration. Results will vary depending on each customer's specific configuration and load.

Summary

VSP One Object delivers the intelligence, scalability and flexibility that data-driven organizations need to unlock the full value of their unstructured data. With advanced features like on-premise native S3 Table support, automated PII discovery and disaggregated scaling, it simplifies operations, enhances compliance and accelerates insight. Backed by a software-defined, microservices architecture and over 20 years of object storage innovation, it's built for price/performance, sustainability and long-term value — empowering you to innovate with confidence.

Hitachi Is Proven: 20 Years of Object Storage Innovation

With two decades of proven innovation and customer trust, Hitachi stands as a global leader in enterprise-class object storage. Our VSP One Object storage platform is built for today's modern workloads — delivering the performance, scalability and flexibility needed to power modern analytics. Backed by a robust ecosystem of expert support and technology partners, Hitachi is ready to help organizations unlock the full potential of their data with confidence and ease.

Ready to get more out of your data?

Get in touch with us. →



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.

Hitachi Vantara

Corporate Headquarters
2535 Augustine Drive
Santa Clara, CA 95054 USA
hitachivantara.com | community.hitachivantara.com

Contact Information
USA: 1-800-446-0744
Global: 1-858-547-4526
hitachivantara.com/contact

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