

Datasheet

Virtual Storage Platform One File

The next generation, easy to manage, highly secure, hybrid-cloud ready file storage platform.

An easy and modern way to manage, monitor, and configure file systems and data across the organization.

In an era where data is the backbone of businesses, deployment agility, managing and securing enterprise data that is diverse should be seamless, efficient, and more importantly cost efficient. VSP One File is meticulously designed with this in mind and is crafted to offer a positive customer experience, robust management capabilities, and expanded deployment options. Hitachi's commitment to delivering a secure, robust, and easy to use data experience is evident in every facet of our solutions.

VSP One File is built with an emphasis on user-centric design. Our next generation file storage solutions offer Hitachi's trusted and robust cyber security measures, while offering a new, intuitive, user-friendly interface for system management between traditional infrastructure, SDS, and hybrid cloud settings, ensuring data mobility and governance.

Simplifying Customer Experience

The need to reduce administrative overhead while simplifying & streamlining data management is more important than ever. VSP One File offers a new modern HTML5 UI while enabling streamlined navigation and reducing set-up time by as much as 50%. Furthermore, we've consolidated replication management and enhanced VSP One File OS with real-time analytics, drilldown per-client monitoring, all as standard features.

Data Protection from Edge to Core

VSP One File delivers the latest security features to defend your data and users against breaches, ransomware, and malicious actors. These include:

- Denial of service (DoS) attack protection
- Multi-factor authentication support
- Extensive RBAC with dedicated security role
- Privileges access management w/ CyberArk vaulting
- Immutable snapshot
- Ransomware detection with partner solutions

Hybrid Cloud Flexibility, On-Prem Performance

Enjoy consistent & secure file performance across your data infrastructure no matter where your data resides. Our near-cloud deployment offers a ultra-low latency, secure connection from enterprise to public cloud. Build fully secure datacenter environments all backed by Hitachi's 100% Data Availability Guarantee.

- **Intuitive, simplified UI and management** – VSP One File offers an easy and modern way to manage, monitor, and configure file systems, data, and users across the organization. Reduce setup time by up to 50%.
- **Ultimate data protection and data governance** – Featuring the latest security features to defend your data and users against breaches, ransomware, and malicious actors.
- **True hybrid cloud readiness** – Near-cloud deployment for ultra-low latency, secure connection from enterprise to public cloud.
- **VSP One Advantages** – VSP One Customers are backed by Hitachi's 100% Data Availability Guarantee, gain access to a rich partner and ISV ecosystem, and get Hitachi's Modern Storage Assurance for non-disruptive upgrades.

Virtual Storage Platform One File

AI Powered Common Data and Control Planes

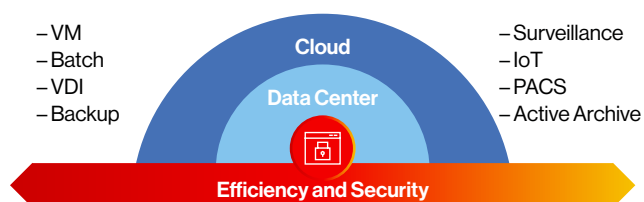
VSP One solutions share the Hitachi Storage Virtualization Operating System (SVOS) data plane and Hitachi Ops Center control plane, so file workloads work the same everywhere—across your edge, core, and cloud environments.

The shared SVOS data plane allows data to flow across databases and applications, and the shared Ops Center control plane centralizes VSP One management.

API first integrations for containerized platforms like Kubernetes gives you flexibility and agility in provisioning and managing shared persistent storage.

Workloads

Home Directories | Test and Dev | Containers | AI | Machine Learning



Models

VSP One File is a modernized Hitachi NAS that is focused on improving customer experience, delivering on operational simplification, and enabling better agility.

VSP One File 32 model is intended for cost sensitive deployments, and/or hybrid flash deployment that have no short/medium term plan to move away from their 10GbE network infrastructure.

VSP One File 34 model is targeted for technology buyers that desire the best price/performance, an all-flash deployment, and have standardized on 25GbE network connectivity or are planning to move short/medium term to 25GbE.

VSP One File 38 model is a performance model and built for leading technology pioneers that require the most file performance, and highest rack network port density to address all-flash use cases and applications.

For high SLA workloads, all VSP One File models support SMB3 multichannel, NFS 4.1 multi-pathing, Nconnect and link aggregation control protocol (LACP) to improve availability and/or higher bandwidth for Windows and Linux clients beyond the limit of a single connection.

Table 1

Models	VSP One File 32	VSP One File 34	VSP One File 38
Single namespace scalability	2 Nodes	4 Nodes	8 Nodes ²
Networking connectivity ¹	10 GbE (optical)	10 or 25GbE (optical)	10 or 25 GbE or 100GbE ² (optical)
Switch connectivity for client access per node ¹	Up to 6 x 10GbE	Up to 8 x 10GbE or 25GbE	Up to 8 x 10GbE or 25GbE; up to 2 x 100GbE ²
Storage connectivity	4 ports x 16Gb FC	4 ports x 32Gb FC	4 ports x 32Gb FC
Real-time analytics support	N/A	VSP One File OS 15.1 or later	VSP One File OS 15.1 or later

¹Port connectivity schema is detailed in the VSP One File 34/38 HW Administration Guide, MK-92HNAS102

²8 nodes support and 100GbE connectivity is not available at initial release, contact your Hitachi Vantara representative for availability.

Table 2

Models	VSP One File 32	VSP One File 34	VSP One File 38
Protocols support	SMB, NFS 4.1, iSCSI, FTP, S3*	SMB, NFS 4.1, iSCSI, FTP, S3*	SMB, NFS 4.1, iSCSI, FTP, S3*
Virtual cluster support	Up to 20 Nodes	Up to 40 Nodes	Up to 80 Nodes
Bandwidth per node pair**	9 GB/s	13 GB/s	18 GB/s
Aggregate bandwidth per virtual cluster**	90 GB/s	260 GB/s**	720 GB/s
Virtual capacity support	Unlimited***	Unlimited***	Unlimited***
Max files count per file system/namespace	130/2080 Billion	130/4160 Billion	130/4160 Billion
Max. mount points per namespace	20,000 shares/10,000 exports	20,000 shares/10,000 exports	20,000 shares/10,000 exports
Max. connections (NFS/SMB) per node	64,000	64,000	64,000

*VSP One File OS 15.1 S3 support is limited for tiering to object storage (cloud)

**Estimate based on preliminary engineering testing and VSP One File administrator target limit

***When cloud tiering is enabled, the limit of max number of addressable objects or maximum files count per file system/namespace is: 130/2080 Billion for model 32, 130/4160 Billion for model 34 and 38.

Global Leaders Trust Hitachi Vantara

The reliability of Hitachi Vantara storage is legendary. That's why 90% of the world's top banks and 85% of Fortune 100 companies use VSP One storage solutions to support their open systems and mainframe environments.



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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