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**SOLUTION BRIEF**

**Introducing Virtual  
Storage Platform (VSP) One:**

# **One Solution for Government Data Infrastructures**

**One Strategy, One Data Platform,  
One Data Management Solution**

# Table of Contents

<b>03</b>	<b>Introduction</b>
<b>04</b>	<b>Agency Challenges</b>
<b>05</b>	<b>The Solution: Virtual Storage Platform One Data Platform</b>
<b>07</b>	<b>The Hitachi Vantara Federal Difference</b>
<b>08</b>	<b>Case Studies: VSP One Drives Success for Federal Agencies</b>



## Introduction

Government agencies face growing challenges with fragmented, outdated storage systems that were never designed to support today's AI-driven analytics, cyber resilience, and real-time decision-making needs. Siloed data makes gaining a comprehensive operational view difficult, slows response times, and increases risk. Meanwhile, aging infrastructure is costly to maintain, vulnerable to cyber threats, and unable to scale for next-generation workloads. A unified storage approach is essential to eliminating silos, enhancing accessibility, and providing a seamless, enterprise-wide view of mission-critical information to drive faster, smarter decisions.

Hitachi Vantara Federal's Virtual Storage Platform (VSP) One empowers agencies to manage and modernize their data infrastructure with One Strategy, One Data Platform, and One Data Management Solution. VSP One delivers a unified, scalable storage solution that integrates block, file, and object storage to ensure high performance, security, and governance compliance. Designed for seamless data management across on-premises, cloud, and edge environments, VSP One simplifies operations while enabling mission success in today's data-driven world.

# Agency Challenges

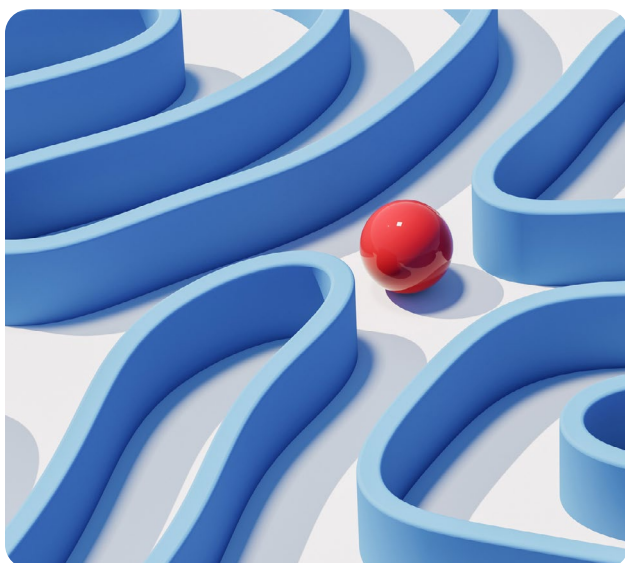
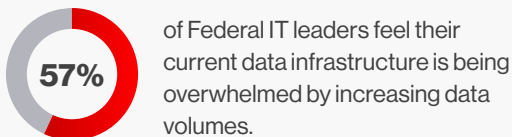
The path to reliable, scalable, and secure storage includes a number of technical roadblocks for agencies.

• **Roadblock #1**

**So much data:** Agencies have all the data they need to make critical decisions and solve meaningful problems. Still, so much of it lives in silos across outdated, disconnected legacy systems, creating inefficiencies and gaps in data visibility to make meaningful use of it.

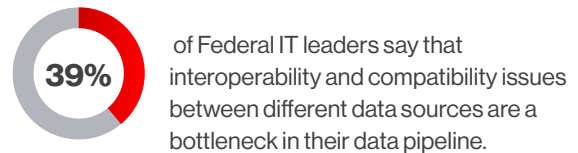
**Increasing volumes of:**

- Biometric
- Machine-generated
- Multimedia
- Geospatial
- Unstructured data



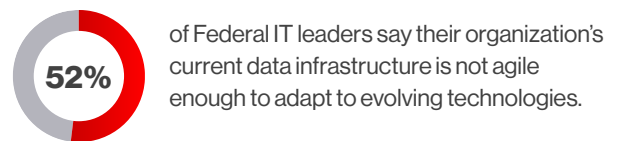
• **Roadblock #2**

**Lack of integrations:** More data sources and data types (like unstructured, structured, etc.) create siloes between infrastructures, data types and deployments.



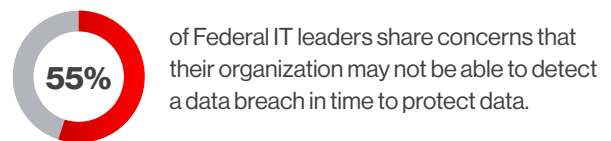
• **Roadblock #3**

**Higher performance workloads:** There's pressure to utilize high performance workloads, such as artificial intelligence (AI) and machine learning (ML), but existing agency infrastructure wasn't designed to handle this much data.



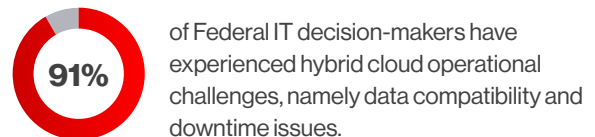
• **Roadblock #4**

**Complex data security:** It's increasingly challenging to protect the growing volumes and types of data from infrastructure failure, human error, and bad actors.



• **Roadblock #5**

**Hybrid cloud management:** A 100% cloud environment isn't feasible for government performance and compliance demands, so agencies are forced to use the hybrid cloud. But many agencies struggle with hybrid cloud management.



# The Solution: Virtual Storage Platform One Data Platform

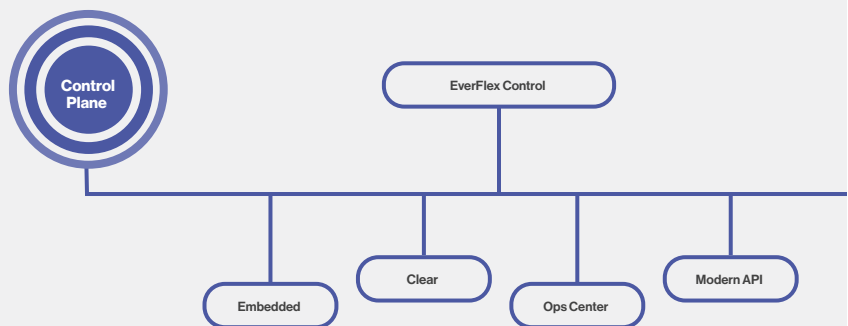
## One strategy to simplify data infrastructure.

Hitachi Vantara Federal recognized the government's data storage and management challenges and developed VSP One. The solution provides a single data plane and a cloud operating model, that provides flexibility, agility, and speed — no matter where data resides.

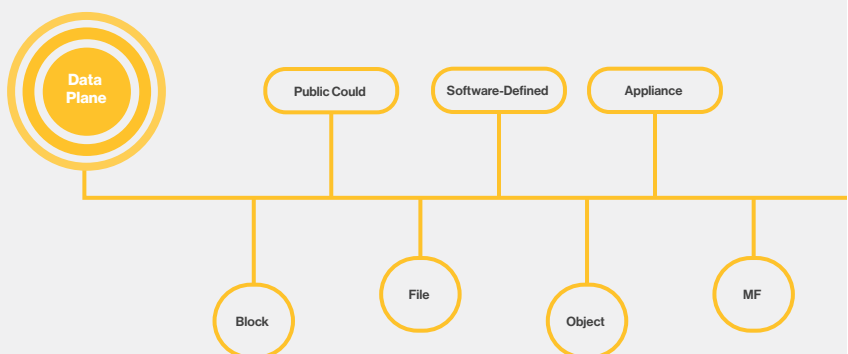
- **One Data Plane** is where the actual data are physically stored so that application data is accessible across all data silos. That can be physical appliance on-prem, software-defined in the cloud, or a hybrid-cloud configuration. The data plane encompasses all storage protocols.
- **One Control Plane** is where all data is managed and controlled, regardless of the underlying infrastructure, access protocol or location. EverFlex provides the single interface for infrastructure management, orchestration, and automation using a single pane of glass.
- **One Data Fabric** enables applications to consume the infrastructure it needs.

From scaling rapidly to gaining deeper data insights, VSP One ensures that storage infrastructure is flexible and resilient enough to adapt to evolving needs.

## Virtual Storage Platform One Ecosystem



Data Perimeter



# VSP One Storage Platform Portfolio

The data plane supports a comprehensive portfolio of data storage platforms designed to meet the needs of federal agencies. Having the right storage platforms is critical to ensure data is secure, accessible, and optimized for performance.



## Block Storage

### High-performance and resilient storage for critical applications.

Accelerate operations while maintaining seamless scalability, maximum efficiency and high availability with advanced automation powered by AIOps.



## File Storage

### Efficient, scalable solutions for unstructured data.

Simplify management of large volumes of unstructured data with hybrid cloud file storage for AI and enterprise workloads. By making unstructured data easy to manage, store, and access across multiple environments, agencies can extract greater value from digital assets.



## Object Storage

### Multi-cloud solutions for large-scale data and cloud-native workloads.

Manage vast amounts of data across multiple cloud environments with a multi-cloud approach that ensures data is always accessible, secure, and optimized for future needs and growth without limitations.



## Mainframe Storage

### Trusted solutions for the highest standards of reliability and performance in the cloud, data center, or at the edge.

Ensure the most critical business operations run smoothly with unmatched data availability built on a legacy of innovation and reliability with over 40 years of investment in the mainframe platform.



## Data Management

### AI-driven storage management tools for hybrid and multi-cloud environments.

Drive innovation by making it easier to manage and leverage data using AI-driven storage management tools, with insights into storage utilization, performance optimization, and predictive maintenance.

# The Hitachi Vantara Federal Difference

Hitachi Vantara Federal's VSP One offers unmatched security, flexibility, and performance, ensuring that agencies can meet today's demands while preparing for tomorrow's challenges. Hitachi sees where the world is going, and we've positioned ourselves accordingly.

## Five Ways VSP One Stands Out

### 1. Always Available

VSP One delivers an industry-leading 100% Data Availability Guarantee with up to 8 nines of availability — setting a benchmark unmatched by any other storage provider.

### 2. Cost-Efficient

VSP One can virtualize up to 215PBr of legacy wstorage from any vendor, enabling customers to maximize the value of their existing investments. Additionally, we offer a hassle-free 4:1 data reduction, lowering storage costs by increasing capacity while maintaining top-tier performance.

### 3. Sustainable

VSP One is Energy Star Certified and third-party Carbon Footprint Certified, reflecting its commitment to environmentally responsible operations.



Reduces rack space by **50-70%**.



Enhances power efficiency by up to **50%** compared to other leading storage vendors.

### 4. Simple to Manage

Powered by a unified operating system, VSP One enables centralized management and control of all data, regardless of the underlying infrastructure, access protocol, or location.

### 5. Superior Performance

Achieve unparalleled performance and capacity scalability with VSP One. Manage up to 65 VSP storage arrays as a single virtual system, offering seamless operations in both single and multi-array configurations.

Enjoy

**100%**

Data availability guarantee for all your apps

Deliver up to

**21M**

IOPs from VSP storage systems built on SVOS

Harness best-in-class

**70µs**

Latency for superior user experience

# Case Studies: VSP One Drives Success for Federal Agencies

Case Study #1	Case Study #2	Case Study #3
<p><b>U.S. Defense Agency Dramatically Shrinks Data Center Footprint</b></p> <p>U.S. Defense Agency tasked with operating and defending the Department of Defense's (DOD) key cyber terrain and providing information technology (IT) services to Pentagon and National Capital Region (NCR) customers engaged Hitachi to successfully modernize its enterprise storage data services for open system and mainframe block, file services, and object storage archival - with synchronous and asynchronous replication between four different sites and four different security enclaves.</p>	<p><b>U.S. Federal Law Enforcement Agency Unlocks Critical Information</b></p> <p>A U.S. Federal Law Enforcement Agency was tasked with delivering timely, accessible, and relevant criminal justice information to qualified law enforcement and other licensed organizations in order to enhance officer safety and achieve law enforcement objectives.</p> <p>This agency had a longstanding partnership with Hitachi and engaged Hitachi to successfully bolster its data storage capabilities to support mission-critical applications such as background checks and identity history.</p>	<p><b>Federal Healthcare Contractor Modernizes Medicare Processing</b></p> <p>Federal healthcare contractor National Government Services (NGS), an Anthem Company, has been helping the United States build its most critical healthcare programs since 1966. Many of NGS's IT systems were built in the 1990s and include legacy technologies, such as magnetic tape. Managing these complex systems was both resource-intensive and time-consuming.</p> <p>NGS has partnered with Hitachi in a successful, multi-year effort to modernize its legacy storage technology and architect a more future-proof digital infrastructure for claims processing and case management.</p>
<p><b>Outcome</b></p> <ul style="list-style-type: none"> <li>• Non-disruptive migration to new storage infrastructure.</li> <li>• Improved performance with all-flash NVMe.</li> <li>• Increased resiliency for mission-critical workloads.</li> <li>• Reduced future storage refresh timeframes by 75%.</li> <li>• Eliminated stranded storage capacity.</li> <li>• Reduced data center footprint by 25%.</li> </ul>	<p><b>Outcome</b></p> <ul style="list-style-type: none"> <li>• Performant, scalable mainframe storage capacity.</li> <li>• Increased resiliency for mission-critical workloads.</li> <li>• Uninterrupted data availability.</li> <li>• More accurate and timely law enforcement intelligence.</li> </ul>	<p><b>Outcome</b></p> <ul style="list-style-type: none"> <li>• Reduced time for system backups by 38%.</li> <li>• Cut time needed to sync environments by quarter by 85%.</li> <li>• Delivered double-digit gain in administration efficiency.</li> <li>• Increased reliability and supported innovation.</li> </ul>



# Unleash the Possibilities of Federal Data with VSP One

Highly scalable architecture and advanced data protection make VSP One a perfect solution for government organizations needing to ensure compliance, security, and high availability for decision making and AI innovation. With VSP One, agencies can operate efficiently, enabling seamless data movement and eliminating the complexity of managing data across multiple systems.

## Discover the Power of VSP One from Hitachi Vantara Federal

Explore how Hitachi Vantara Federal's Virtual Storage Platform One can help your agency optimize data management, improve efficiencies, and enhance security.

To learn more, visit:

[hitachivantarafederal.com](https://hitachivantarafederal.com) →

## ABOUT HITACHI VANTARA FEDERAL

Hitachi Vantara Federal is the trusted leader in mission-centric data solutions for the Federal government. We're a collaborative, full-service company with longstanding OT/IT roots. We empower data-driven insight with a deep bench of integrated partners — advancing Federal customer missions regardless of their data maturity levels. Hitachi Vantara Federal is a FOCI-mitigated subsidiary of Hitachi Vantara. Visit us at [hitachivantarafederal.com](https://hitachivantarafederal.com).

## Hitachi Vantara Federal



**Corporate Headquarters**  
11950 Democracy Drive, Suite 200  
Reston, VA 20190 USA  
[hitachivantarafederal.com](https://hitachivantarafederal.com)

**Contact Information**  
[info@hitachivantarafederal.com](mailto:info@hitachivantarafederal.com)  
[hitachivantarafederal.com/contact-us/](https://hitachivantarafederal.com/contact-us/)

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