

E-BOOK

**HITACHI**  
Inspire the Next

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# Solve the Six Biggest Data Storage Challenges.

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# Introduction.

Can your IT infrastructure team keep up with the demands of a distributed workforce and data hungry applications? If you are overwhelmed by maintenance tasks and struggling to deliver IT projects fast enough, because you're continually challenged to be agile and "do more with less," ***it's time to rethink how you manage data storage.***







## Challenge 1

# You're Human. You Have To Sleep at Some Point.

There are only so many hours in a workday. If you're not careful, your team will spend more and more of those hours maintaining enterprise storage systems, with less time for strategic projects or supporting change. You either need to keep hiring, or help your team find new efficiencies.

### **Make Automation Work For You.**

Automation and analytics tools with integrated artificial intelligence (AI) and machine learning (ML) help manage ever-growing storage with fewer personnel, resources, and human interaction.

### **Reduce Manual Admin Tasks by 70%.**

Hitachi Ops Center uses AI-enabled IT analysis and automation to improve operational efficiency and speed of new resource delivery.



**I can't bridge the skills gap nor deliver with this reduced headcount."**

## The Hitachi Vantara **Advantage**

- Reduce manual administrative tasks by up to 70% to give your team a break.
- Automate storage provisioning workflows to simplify and error-proof your infrastructure resource management. Optimize performance and improve the speed of delivery with insights from machine-learning resources analysis.
- Gain IT operational insights to help optimize end-to-end resource performance and improve utilization.



## Challenge 2

# You're Doing More and More With Less and Less.

Letting increasing storage demands slow your business down isn't an option. You can't afford to let increasing storage demands slow your business down. But you also can't afford the time and cost of setting up new enterprise storage infrastructure. So you're pushed to do more and more with less.

### **Premium Storage, Without The Premium Price Tag.**

World-class storage infrastructure (speed, capacity, low latency, high availability) is now accessible for companies of all sizes and budgets. New storage virtualization capabilities even allow you to get additional value from older infrastructure without having to completely rip and replace.

### **100% Data Availability. Guaranteed.**

The Hitachi Virtual Storage Platform (VSP) family delivers the performance your growing mission-critical applications need, consolidating datasets to more efficiently manage and increase the utilization of your storage footprint.



**I am constantly challenged to deliver IT projects faster, with reduced resources, so struggle to meet my SLAs.”**

## The Hitachi Vantara **Advantage**

- Eliminate bottlenecks for data-hungry applications with NVMe.
- Maintain the pace of digital business with a 100% data availability GUARANTEED and 24/7 responsive infrastructure.
- Ensure low latency service levels are met and rapidly troubleshoot problems with telemetry metrics analysis across the full data path, from virtual machine to shared storage resources.
- Suffer fewer headaches with predictable and repeatable experiences for all your applications.
- Align infrastructure to your unique needs with the Hitachi Vantara portfolio of hybrid-flash, all-flash and NVMe arrays.



[Learn More About Midrange Storage](#) 

### Challenge 3

# “Keeping Up” Won’t Cut It Anymore.”

Once routine tasks are under control, you need to keep them under control. But can your infrastructure keep up with accelerating demands and still support new digital transformation initiatives?

## **Future-Proof Your Storage Decisions.**

Future-proof your storage decisions with scalable, reliable infrastructure. Agility forms a foundation for confident business innovation.

## **Best-In-Class. Across Every Class.**

Hitachi Virtual Storage Platform portfolio of hybrid, all-flash and NVMe storage gives you economical access to the latest technology to increase agility and drive innovation. In addition, Hitachi Ops Center provides AI-enabled operations to improve IT operational efficiencies, optimize performance and ensure your data is protected.



**Don’t let your infrastructure hold back your pivot towards the “Next Normal.”**

The Hitachi Vantara  
**Advantage**

- Get best in class performance with latency as low as 33µs and 21M IOPs for supercharged application response times.
- Intermix NVMe storage class memory with SAS flash and HDDs, with support for NVMe over Fabrics (NVMe-oF).
- Simplify storage management tasks with unified system administration.
- Advanced AIOps accelerate speed of execution and innovation by letting your staff concentrate on areas that add value to the business.

## Challenge 4

# Your Staff Is As Thin As Your Budget.

Your staff and infrastructure are stretched, but so is your budget. It's time to get creative about resource use to maximize ROI.

### **Raise The Bar, Not The Budget.**

For example, automation reduces operational personnel cost, virtualization improves the ROI of existing infrastructure, and data compression reduces infrastructure requirements.

### **Accelerate Resource Delivery By 90%.**

Hitachi's VSP family allows you to dynamically scale up or down as needed by applying technology solutions, like the Hitachi Ops Center Automator to improve performance efficiency.



**To keep up, I need to find ways to get more out of my budget.”**

## The Hitachi Vantara

# Advantage

- Accelerate new resource delivery by up to 90% by using automated provisioning workflows.
- Reduce IT operating budget waste by up to 20% by paying as you consume.
- Reduce storage costs with AI-driven data reduction that is guaranteed by Hitachi.
- 4:1 sight-unseen effective capacity guarantee to extract the highest value per GB and IOP.
- Extract the highest value per GB for performance with Data Efficiency, Adaptive Data Reduction (ADR).
- Lower TCO on existing assets by up to 20% and extend the life of older systems with using third-party storage virtualization.





## Challenge 5

# Chaos Is The Only Constant.

Data demands on your business aren't completely predictable, but your business relies on consistent service. Your infrastructure needs a way to flex with demand without breaking the bank.

### **Align Spending With Outcomes.**

Shift the way you consume IT solutions and services. Align technology spending with usage and business outcomes to reduce the risk of over- or under-investing in the IT solutions that run your enterprise.

### **Only Pay For What You Need.**

With EverFlex, you'll only pay for what you need when you need it. Get flexible consumption options for your complete solution — including storage and remote monitoring, a fully managed service, or storage as a Service.



**My technology needs can be unpredictable, and I need an affordable way to match our business growth, whatever it happens to be.”**

The Hitachi Vantara  
**Advantage**

- Scale storage capacity up or down with demand using EverFlex Consumption for utility or 'as a Service' offerings from Hitachi Vantara and our partners.
- Utility offerings allow you to tailor secure and compliant managed services to match your business requirements – one size does not fit all.
- Guarantee IT service availability with SLAs backed by Hitachi Vantara.
- Access pay-per-use consumption choices with predictable, transparent pricing and guaranteed savings through EverFlex Consumption.

## Challenge 6

# “Breaking News” Headlines Are Headaches.

Not all news is good news. You don't want your business to be on the front page due to long-term outage or a data breach.

### **Protect Your Reputation And Your Data.**

Predictable performance, encryption of stored data and guaranteed availability helps protect your uptime, data and reputation.

### **Safe And Secure at Any Scale.**

The Hitachi Virtual Storage Platform family safeguards continuous operations for key applications and provides nonstop, uninterrupted data access and zero RTO and RPO goals.



**I need to protect our data and  
our company reputation.”**

## The Hitachi Vantara

# Advantage

- Reduce risks with new infrastructure resource deployment with automated provisioning tasks.
- Eliminate risk of theft and data leaks with FIPS 140-2 encryption and industry-leading data erasure.
- Prevent illegal access and destruction of data with hardened system access.
- Simplify ongoing security compliance with KMIP agility.
- Our pioneering 100% data availability guarantee is available across the entire Hitachi VSP portfolio.





Our Solutions

# Introducing the Hitachi Midsize Enterprise Portfolio

The Hitachi Virtual Storage Platform (VSP) portfolio grows with your needs with a family of storage solutions powered by a common storage operating system, user experience and AI-enabled management suite.

## Proven

Trusted capabilities that won't break the bank.

- Legendary 100% data-availability guarantee.
- Time-tested performance, availability and scalability.
- Guaranteed to reduce storage costs.

## Powerful

AI Ops that work harder so you can work smarter.

- Accelerate storage resource delivery by up to 90%.
- An average 30% faster non-disruptive migration set up.
- Reduce manual tasks by up to 70%.

## Predictable

Pricing that's predictable for usage that's flexible.

- Predictable pricing with cloud-like consumption.
- Reduce IT operating budget waste by up to 20%.
- Align purchase to business use to reduce waste, disruption and overspending.

Our Solutions

# The Hitachi Virtual Storage Platform (VSP)

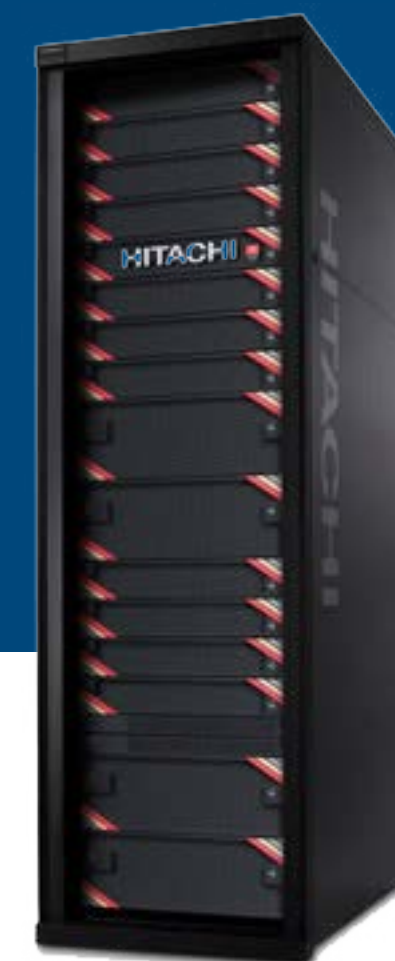
## VSP E Series

Enterprise grade storage optimized for small and midsized organizations - providing supercharged performance for business applications, while also meeting data efficiency needs with a simple-to-manage platform.



## VSP 5000 Series

For the most demanding enterprise storage applications, the VSP 5000 series provides the foundation for a modern, enterprise-class infrastructure. As the world's fastest NVMe flash array, the VSP 5000 series provides 33M IOPS and 39µs best-in-class latency, an all-new, scale-out architectural design that is optimized for NVMe-oF, and delivers best-in-class performance and resiliency.



## Svos Rf

Common across all systems above. All VSP systems ship with Hitachi Storage Virtualization Operation System (SVOS) RF, which provides a common software platform that delivers 24/7 application availability, and delivers best-in-class performance and resiliency.



Common across all systems previously mentioned

# Hitachi Ops Center Suite

Integrated AI-Driven Enterprise Management.



## Cloud-based AIOps

Ops Center Clear Sight Powered by Hitachi Remote Ops. Cloud-based storage monitoring across VSP's.



## Modern Data Protection

Ops Center Protector.  
Enterprise Copy Data Management.



## On Premises AIOps

Ops Center Analyzer & Automator.  
Real-Time, Telemetry Monitoring with Automated Remediation



## Flexible Storage Management

VSP Embedded Management and Op Center Administrator. Rapid array setup; move to Hitachi Ops Center for Advanced Management Capabilities.



## Self-Driving Infrastructure

VSP E Series, VSP 5000, SVOS RF

# We Are Hitachi Vantara.

Let Hitachi Vantara and our partners help you accelerate transformation with the storage portfolio made for what's next. No matter what type of data, application or business, you can trust Hitachi Vantara comprehensive storage solutions.

Midrange Storage 

[Learn More About Midrange Storage](#) 

## Hitachi Vantara

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