

# In a world where microseconds matter, Hitachi Virtual Storage Platform (VSP) E series supercharges performance for your mission-critical applications, while also meeting data efficiency needs with a simple-to-manage platform

## DATASHEET

## Hitachi Virtual Storage Platform E Series: All-Flash NVMe Speed and Efficiency

### Trusted Capabilities That Won't Break the Bank

With the Hitachi Virtual Storage Platform E series (VSP E590, E790 and E990), we provide agile and automated storage built upon the innovative technologies found in our high-end enterprise systems. Now any federal agency can deliver exemplary service levels, data security, and performance. With Hitachi VSP storage, you can enjoy the same peace of mind and application availability that the largest enterprises in the world rely on.

These systems enable you to cost-effectively meet your users' current digital expectations and scale to address future challenges as application data needs and service levels evolve. With time-tested, proven availability and scalability, we deliver infrastructure solutions that help you maximize your data center advantage.

Give your growing agency the performance that large enterprises rely on to satisfy the demands of real-time, data-hungry applications. VSP E series NVMe architecture delivers consistent, industry-leading, low-microsecond latency, reduces the transaction costs of latency-critical applications, and delivers predictable performance to optimize storage resources.

Flexible data management options allow you to evolve as your agency grows. Use the E series embedded management for simplified system configuration and setup, ideal for single system environments, or choose Hitachi's Ops Center management for comprehensive administration, analytics, automation and data protection capabilities across the entire E series and VSP families.

Take advantage of the advanced capabilities in the VSP E series across all your data center storage assets through virtualization pioneered by Hitachi. Storage virtualization gives you a common management control point for multiple storage systems, which drives increased administrative efficiencies. Data services, like data reduction, automation, and metro clustering, that are available with VSP E series are extended to virtualized storage systems to give them more value and an extended life cycle.

### **Proven. Powerful. Predictable.**

Federal agencies trust Hitachi Vantara Federal with their most important business asset: data. They know our storage solutions are fail-safe. Hitachi storage platforms are time tested, with proven performance, reliability and scalability.

## Enterprise Agility

Building upon our successful portfolio of all-flash data solutions, the NVMe architecture of the VSP E series is powered by the same [Hitachi Storage Virtualization Operating System RF \(SVOS RF\)](#) operating system that protects our largest customers. With all VSP models sharing a common SVOS RF operating system, you can manage and replicate your data between any VSP system and avoid creating silos of data.

Class leading latency of less than 66uS (VSP E590 and E790) and less than 64uS (VSP E990) drives efficiencies and stellar customer experiences throughout your business while the 2 rack unit E590 and E790 deliver massive consolidation of mission-critical workloads which means considerable cost savings. VSP E series gives your federal agency the performance that large enterprises have relied on for decades to satisfy the demands of your real-time, data hungry applications.

Hitachi Vantara Federal has designed intelligence into our adaptive data reduction technology, which means that you can run data reduction and be assured of optimized data reduction performance and efficiency. With our proven data reduction capabilities, VSP E series allows organizations to adopt all NVMe today and make effective use of our [4:1 sight-unseen effective capacity guarantee](#)<sup>1</sup> plus our [7:1 total efficiency guarantee](#).

## Legendary Hitachi Resilience

VSP E series builds on 58 years of proven Hitachi engineering experience, offering you a superior range of operational continuity options that provide the best reliability in the industry. We back this up with the industry's first and most comprehensive [100% data availability guarantee](#). As a result, 87% of Fortune 100 financial services companies trust Hitachi Vantara storage systems with their mission critical data.

The VSP E series innovative active-active controller architecture protects your agency against local faults while mitigating performance issues. In addition, enterprise-class metro clustering is also available with our [Global-Active device](#) solution which provides synchronous replication between data centers up to 500km apart. For even more protection and data mobility, you choose asynchronous replication to a third data center with Hitachi Universal Replicator. Migrate data from older systems with no disruption to your operation and applications. All the while, monitor your entire storage environment with Hitachi Remote Ops which proactively predicts and prevents issues that may lead to downtime or operational disruption.

The VSP E series is fully integrated with Hitachi Ops Center Protector to provides application-aware snapshots, copy data management and instant recovery. Ops Center Protector even delivers continuity in the public cloud, so you can recover from a data disaster in seconds, not hours!

## Flexible Storage Management Choices

Hitachi Vantara Federal offers flexible storage management choices that grow with your business. Whether for a single array or larger environments, our full complement of orchestration and optimization tools will meet your unique needs now and evolve for what is next. Use the E series embedded management, which is ideal for single system environments. Or choose Hitachi's Ops Center management that provides comprehensive administration, analytics, automation, and data protection capabilities across the entire E series and VSP families.

Hitachi embedded management provides simplified, rapid system configuration and setup of the VSP E series arrays with the ability to provision storage within minutes as well as providing array-based monitoring for basic troubleshooting.

Hitachi Ops Center is an integrated storage management platform which includes configuration, analytics, automation, and data protection for a more simplified approach to storage management. Ops Center uses the latest AI and machine learning (ML) capabilities to improve IT operations through an, Ops Center simplifies day-to-day administrative, optimization and management orchestration for VSP E series, freeing your staff to focus on innovation and and strategic initiatives.

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<sup>1</sup> The 4:1 Effective Capacity Guarantee does not require a pre-assessment of your environment

Hitachi Ops Center Analyzer uses ML to continuously monitor the entire data path, from virtual machine (VM) to storage, to ensure resources are meeting their required service level agreements (SLAs) for mission-critical applications. If bottleneck issues do arise, Ops Center Analyzer identifies, diagnoses, and prescribes recommended changes to rapidly resolve the issue. The software also offers predictive analytics to streamline complex decision-making for better planning of future storage requirements or to optimize quality of service (QoS).

Management automation is a critical aspect of improving IT operational efficiency. Hitachi Ops Center Automator orchestrates the agile delivery of VSP E series storage resources to enable a cloudlike, IT-resource delivery model. This approach provides rapid deployment of new infrastructure resources, based on best practices, and ensures consistent data resiliency policies. Hitachi Ops Center consolidates the number of management tools required to automate resource delivery, lower operating expenditure (opex) costs and deliver greater IT operational efficiencies for VSP E series storage environments.

[Learn More](#) about NVMe technology and how it delivers super-charged response times for your business critical applications.



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