

Datasheet

Accelerate Innovation with Adaptive Converged Solutions for AI and Hybrid Cloud

Modernize your data center with Cisco and Hitachi Adaptive Solutions for Converged Infrastructure, powered by Hitachi Vantara VSP One. This advanced, scalable infrastructure helps you meet the evolving demands of modern workloads, including hybrid cloud, AI, and data-driven applications.

Future-Proof Your Data Infrastructure for Outcomes That Matter

Cisco and Hitachi Adaptive Solutions for Converged Infrastructure (CI) is a prevalidated, tested and rapidly deployable reference architecture (RA). Its data-driven foundation supports a broad range of technologies and workloads. Combined with continuous innovations, it positions organizations to deliver better customer experiences and tap into new revenue streams.

Data-Driven Foundation

Adaptive Solutions for CI prepares businesses to rapidly adopt new technologies, such as AI, containers, hybrid cloud adopting a data-driven foundation. By orchestrating efficiencies across the data path, customers future-proof their data infrastructure and unlock the full value of their data for timely decision-making.

Continuous Innovations

Industry leaders Hitachi Vantara and Cisco co-innovate and deliver pre-validated solutions for Red Hat Open Shift Container Platform, infrastructure consolidation, SAP HANA, Epic electronic health care, virtual desktops, and disaster recovery.

Sustainable IT

As the only Carbon Footprint of Products (CFP) certified storage brand, Hitachi Vantara VSP and VSP One solutions drive down CO2 emissions while also reducing

your costs. The VSP One platform's architecture is optimized to consume less power while ensuring peak performance for enterprise workloads. This helps reduce the carbon footprint of the data centers and organizations using the technology.

Open Architecture

A highly configurable integrated infrastructure that is API-enabled and extensible, Adaptive Solutions for CI combines Hitachi's flagship VSP and VSP One storage arrays, Cisco UCS blade servers and Cisco Nexus and MDS switches (see Table 1). This tested, validated and documented architecture is designed to ensure highest levels of availability and system reliability, ensuring a better end-customer experience.

AI-Enabled Smart Operations

Unified manageability with Cisco Intersight for the full-stack infrastructure. Day-to-day management is performed through VMware vSphere, vCenter plugins and element managers for optimized configuration and management of the entire CI stack. AI-enabled intelligent orchestration simplifies deployment and operations via Hitachi Ops Center Automator, ensuring a 70% reduction in storage management tasks. And Cisco UCS IT staff reaped a 75% increase in efficiencies by moving to a UCS environment, according to the same ESG report.



Figure 1. Cisco and Hitachi Adaptive Solutions for Converged Infrastructure

Higher ROI

The ESG report further states that Cisco UCS customers experienced a 22% lower expected TCO. Customers leveraging Hitachi's VSP 5000 series reap a 4:1 effective data capacity and are further backed by eight-nines availability, which ensures that access to data is always on. More importantly, the solution is supported seamlessly by world-class support organizations from both companies.

By future-proofing their IT platforms with innovative technologies, growth-oriented and large organizations offer better customer experiences and drive new revenue streams, improving their overall profitability.

For more information on the joint reference architectures, [click here](#).



Compute	<ul style="list-style-type: none"> • Cisco UCS 5108 Blade Chassis <ul style="list-style-type: none"> • B200 (2 CPU) M5, M6 Blades (up to 8 per chassis) • B480 (4 CPU) M5, M6 Blades (up to 4 per chassis) • Cisco X9508 Chassis <ul style="list-style-type: none"> • X210c (2 CPU) M6, M7 Blades (up to 8 per chassis) • X440p PCIe blade (to Hold GPUs etc..) • X410c (4 CPU) M7 Blades (up to 4 per chassis)
Storage	<ul style="list-style-type: none"> • Hitachi Virtual Storage Platform One B20 Series: VSP One B24, VSP One B26, VSP One B28 • Hitachi Virtual Storage Platform (VSP) 5000 Series and VSP E590, E790 and E1090 • VSP F Series All-Flash Arrays: VSP F1500, VSP F900, VSP F800, VSP F700, VSP F370, VSP F350 • VSP G Series Hybrid-Flash Arrays: VSP G1500, VSP G900, VSP G800, VSP G700, VSP G370, VSP G350
Management Software	<ul style="list-style-type: none"> • Cisco Intersight (compute, Network, Storage) • Cisco Data Center Network Management Software (network) • Hitachi Ops Center (portfolio: storage and data protection) • VMware vSphere, vCenter 8.x, 7.x and 6.x Plug-ins • Hitachi Storage Plug-in for Containers • Hitachi Storage for vCenter (storage provisioning) • Cisco UCS Manager (compute) • Cisco ACI (network)
Network	<ul style="list-style-type: none"> • Cisco Fabric Interconnect: UCS 6536, 6454, 6332 • Cisco Ethernet Networking: Nexus 9000 Series • Cisco Fibre Channel SAN: MDS 9700 Multilayer Directors and MDS 9300, 9200, and 9100 Fabric Switches

Table 1. Cisco and Hitachi adaptive solutions for converged infrastructure specifications

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.

Learn More →

Learn more about future-proofing your data infrastructure in this video.



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