

Solution Profile

Power Your AI Future on a Foundation of Trusted, Modernized Data

Innovation's most powerful data engine for the AI era



Optimize Infrastructure and Economics

Modernize your data platform to eliminate silos, cutting TCO by 66% through agile, pay-as-you-go storage consumption.

Continuous Hybrid Cloud Operations

Always-on data mobility across on-prem and cloud, keeping critical services available during migrations and multicloud changes.

Resilient-by-Design Data Continuity

100% data availability through risk-based governance, immutable snapshots, and orchestrated clean recovery.

Organizations struggle to bridge the gap between legacy infrastructure and AI innovation.

Modern enterprises face explosive growth in high-performance workloads, from RAG (retrieval-augmented generation) to real-time analytics. While these advances drive business outcomes, they overwhelm legacy infrastructure. Many organizations remain “data-rich but insight-poor,” trapped by hardware that cannot meet the sub-millisecond latency and massive throughput required for AI.

The AI Dividing Line: Why 70% of Projects Underperform

The rush to adopt AI has exposed a critical vulnerability: Most enterprise data is not “AI-ready.” Fragmented silos of “zombie data” are trapped in inaccessible formats. Consequently, research shows nearly 70% of AI projects fail to reach production due to data debt and infrastructure that cannot sustain production-grade scale.

Organizations today face a triple threat:

- **The Complexity Gap:** Managing disparate storage across hybrid clouds increases operational risk and slows time-to-insight.
- **Sustainability and Cost:** Inefficient, power-hungry legacy arrays consume up to 30% of IT budgets, making ESG goals difficult to achieve.
- **The Resiliency Crisis:** Ransomware and tightening mandates threaten AI strategies. Without integrated resilience, enterprises face millions in downtime losses, regulatory penalties and “vendor finger-pointing.”

To thrive, organizations need a data foundation that scales without added complexity. Our Data Modernization solution provides a unified software-defined storage (SDS) ecosystem that breaks down barriers between block, file, and object data.

A Unified, Resilient-by-Design Data Foundation

Hitachi Vantara provides a modernization path that de-risks digital transformation through a common data platform delivered via data infrastructure, software-defined deployments and flexible consumption models. By consolidating legacy environments into a high-performance unified data fabric, you gain a single, trusted source of truth for your business. This approach goes beyond hardware refresh: It delivers consistent data services across the enterprise, from the data center to the edge and the cloud.

Our Data Modernization solution enables organizations to:

- **Lower TCO with STaaS:** Adopt a storage-as-a-service approach to align costs directly with usage. This eliminates the financial risk of overprovisioning and allows for rapid scaling as AI workloads grow.
- **Unify Data Services:** Manage block, file and object data through a common control plane, simplifying management and reducing operational complexity.
- **Accelerate AI Workloads:** Leverage high-throughput NVMe performance to feed data-hungry large language models (LLMs) and real-time analytics engines without the latency spikes common in traditional arrays.
- **Hybrid Cloud Mobility:** Enable seamless data movement between on-premises environments and public clouds [Amazon Web Services® (AWS®), Microsoft® Azure®, Google Cloud Platform® (GCP®)]. By establishing a consistent data foundation that decouples info from hardware, organizations eliminate silos and avoid regulatory or technical refactoring, ensuring data is available wherever the business needs it.

This approach ensures that your infrastructure is built to last, providing the agility to adapt to the next decade of technological shifts while maintaining 100% data availability.

Use Cases

Data Platform Architecture and Economics

Optimize cost, footprint and efficiency by consolidating legacy, power-hungry storage into a high-density, unified data engine. Use STaaS to shift from capital expenditure to a predictable, usage-based operational model.

Hybrid Cloud Platform and Operations

Restore isolated capacity for continuous operations using SDS to enable a “cloud-like” operational model on-premises while allowing for seamless data bursting and disaster recovery in the public cloud. By unifying these environments, you gain a single pane of glass for management that simplifies workload mobility across the entire ecosystem.



AI Workloads

Prepare and optimize massive unstructured data sets for AI training. Ground AI in your unique business context with high-performance data access to ensure accuracy and relevance. Delivering high-throughput, low-latency performance ensures your GPU clusters remain fully saturated and productive during intensive training cycles.

Enterprise Workload Optimization

Enhance performance for high-transaction ERP systems (SAP HANA®, Oracle®) and mission-critical financial platforms that require “zero-wait” data access. This foundation provides the consistent sub-millisecond response times necessary to handle peak transaction volumes without performance degradation.

Data Modernization for the AI Era

Hitachi Vantara provides a single foundation to unify data and optimize mission-critical workloads, so IT is ready to face current and emerging business storage challenges. By de-risking the journey to AI with a “resilient-by-design” philosophy, we help organizations transform data from a storage burden into a strategic asset. Our modernized data architecture ensures that your business stays ahead of change, delivering the speed, scale and security required for the next generation of digital innovation.

Unlock the data foundation your AI innovation demands.

Watch on Demand →



Data Modernization Solution Impact

- **Availability:** 100% Data Availability Guarantee.
- **Economy:** 66% lower TCO.
- **Agility:** up to 80% faster recovery time objective (RTO).
- **Consumption:** flexible STaaS/pay-per-use consumption models.
- **Green IT:** 40% reduction in carbon footprint and energy use.

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.

Hitachi Vantara

Corporate Headquarters
2535 Augustine Drive
Santa Clara, CA 95054 USA
hitachivantara.com | community.hitachivantara.com

Contact Information
USA: 1-800-446-0744
Global: 1-858-547-4526
hitachivantara.com/contact

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