

## Solution Profile

# Accelerate Microsoft SQL Server Performance With Simplified, Scalable Storage

*Companies of all sizes that rely on Microsoft SQL Server are experiencing growing demands for real-time insights while ensuring continuous availability. As data volumes increase and analytics become more complex, traditional infrastructure often struggles to keep pace.*

## Solution

### Simplified, Integrated Solutions for Microsoft SQL Server Infrastructure

Hitachi offers solutions for Microsoft SQL Server that are powered by Hitachi Vantara Virtual Storage Platform One (VSP One). This easy-to-use, powerful and cost-efficient platform accelerates deployment, simplifies administration and lowers TCO.

### Enhance Your SQL Server Performance

Gain instant access to critical insights while ensuring your databases are continuously available and capable of efficiently scaling with your business growth. VSP One delivers lightning-fast performance and efficiency, providing a dependable and scalable storage solution to meet your evolving needs.



### Hitachi Solutions for Microsoft SQL Server

Pre-validated Solution for Your Database, Powered by VSP One

Microsecond Latency	High Data Transfer Rate	Scaling Without Disruption	100% Data Availability
Storage Power Efficiency	Simplified Infrastructure Mgt	Flexible DB Server Configurations	Lower TCO



### An Integrated Systems Solution That Delivers:

- Best data availability and uptime in the industry
- Predictable and reliable performance for your applications
- Real-time IT insights enable easy scalability as your business adds or changes its satellite locations

### Integrated, Ready-to-Deploy, Full-Stack Solution for SQL Server

Hitachi pre-validated, pre-integrated infrastructure is designed specifically to optimize SQL Server operations. Delivered as a ready-to-deploy solution, our full-stack system minimizes deployment effort and risk with configurations tested and optimized for SQL Server workloads, reducing the risk of misconfiguration and performance bottlenecks.

## *Why Select Hitachi Solutions for Microsoft SQL Server*

29%

The Hitachi solutions achieved 29% more transactions per minute in in-house tests compared to the reported performance of other storage solutions in the market.

28%

The Hitachi storage array performs 28% faster with lower latency than another large storage provider.

100%

Experience 100% data availability of your SQL Server database.

70%

Execute complex queries up to 70% faster with microsecond storage latency.

Near  
Zero

Ensure near-zero downtime for mission-critical SQL applications.

40%

Reduce storage energy costs by up to 40% while meeting sustainability targets.

30%

Reduce administrative overhead by up to 30% with simplified management.

## *Features and Benefits of Hitachi Solutions for Microsoft SQL Server*

### **Enterprise Outcomes at a Midmarket Price**

Hitachi integrated solutions deliver enterprise-level performance and reliability tailored to midmarket budgets. With a 4:1 data reduction guarantee, VSP One optimizes storage efficiency, allowing midsized businesses to scale effectively without compromising performance.

**Benefit:** Access enterprise-class features and capabilities without enterprise-level pricing.

### **Simplified Operations With VSP One Unified Management**

Eliminate complexity with a single console for managing SQL Server storage across on-premises and hybrid environments. Policy-based automation with Hitachi Ops Center simplifies provisioning, storage replication and backup policies, to reduce errors and increase productivity.

**Benefit:** Reduce administrative overhead by up to 30% with AI-driven insights that help optimize SQL database performance.

### **Peak Performance and Low Latency**

VSP One delivers consistent 87 µs (microsecond) response times for SQL Server databases, even during peak workloads, ensuring optimal SQL Server performance. The Hitachi solutions powered by VSP One Block arrays perform 29% more transactions per minute than the published results of the nearest competitor who used a higher-end storage solution, while IOs run 28% faster to maximize revenue potential and accelerate business insights.

**Benefit:** Power revenue growth with higher throughput and faster query execution.

### **Maximize Storage Efficiency**

The industry's only 4:1 no questions asked Effective Capacity Guarantee and adaptive data reduction capability maximize efficiency. Hitachi Thin Image Advanced saves up to 90% or more disk space by storing only changed data blocks with deduplicated and compressed snapshots.

**Benefit:** Support growing data requirements while optimizing storage utilization.



## Industry-Leading Availability

Advanced VSP One architecture ensures continuous uptime through automated failover, synchronous replication and intelligent clustering technologies designed for zero-RPO protection. Backed by our legendary 100% Data Availability Guarantee, VSP One Block systems are engineered with no single points of failure and multiple levels of redundancy.

***Benefit: Eliminate costly database downtime and maintain business continuity.***

## Large Scale for Growing Organizations

Optimized solutions from Hitachi Vantara allow independent server and storage scalability to meet varying resource needs. The VSP One array scales up to 33M IOPS to power multiple SQL Server instances and supercharge business applications, expanding seamlessly as databases grow without performance bottlenecks.

***Benefit: Support 3x data growth without application interruption or performance degradation.***

## Flexible Consumption Models

Businesses benefit from Hitachi EverFlex Infrastructure as a Service Portfolio, a flexible, consumption-based model that helps optimize and scale SQL Server infrastructure. Hitachi EverFlex IaaS provides on-demand storage, compute and data management services, reducing upfront investments while improving performance and resilience.

***Benefit: Align costs with actual database utilization and business growth.***

## Ironclad Security and Compliance

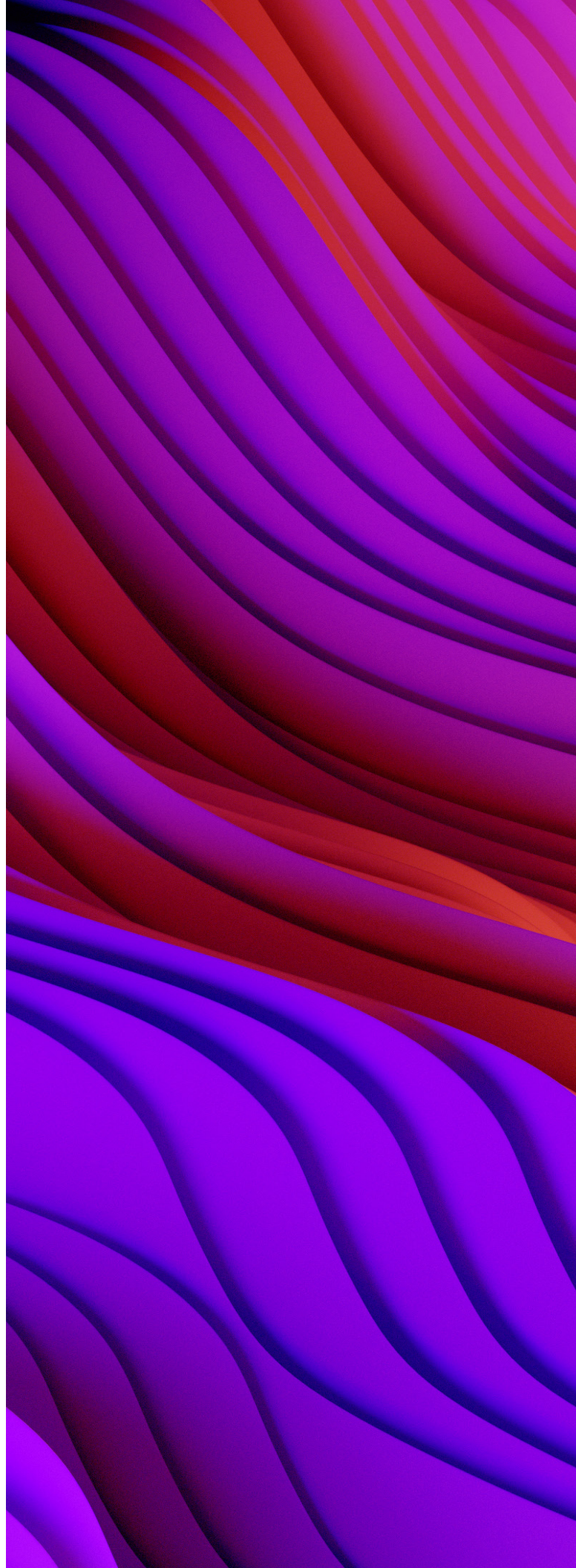
VSP One arrays provide enterprise-grade security features that protect SQL Server environments from cyber threats, data breaches and regulatory risks. Immutable snapshots prevent unauthorized changes to SQL Server backups and ensure recovery from ransomware attacks or accidental deletions.

***Benefit: Ensure data integrity with automated retention and archival policies for compliance and secure multitenancy.***

## Decarbonized IT for a Greener Future

Hitachi delivers the most energy-efficient storage arrays that yield the highest IOPS/KWH power consumption. As the only storage provider certified by ENERGY STAR and third-party verified for Carbon Footprint of Product (CFP) under Japan's SuMPO Environmental Product Declaration (EPD) program, Hitachi solutions for SQL Server infrastructure consume less energy and emit less carbon.

***Benefit: Reduce storage energy costs by up to 40% while meeting sustainability targets and ESG policies.***



## Accelerate Microsoft SQL Server Performance With Simplified, Scalable Storage

### Why Hitachi Is Your Ideal SQL Server Infrastructure Partner

Hitachi combines decades of enterprise storage leadership with deep Microsoft SQL Server expertise to deliver purpose-built infrastructure for your most demanding database workloads. Our end-to-end approach eliminates the complexity and finger-pointing of multivendor environments while providing the performance, reliability and efficiency that modern data-driven enterprises require.

With Hitachi integrated systems powered by VSP One for Microsoft SQL Server, you'll have a mature, robust and scalable infrastructure to deliver a masterstroke against delayed insights, resource inefficiency and database downtimes.

### Next Steps

Discover how Hitachi can transform your Microsoft SQL Server performance and reliability:

- Schedule a personalized demonstration using your actual workload characteristics.
- Connect with a Hitachi database solution architect to design your optimal infrastructure.
- Explore flexible consumption models that align costs with actual database utilization.
- Review our SQL Server reference architectures for your specific industry vertical.



**See how our integrated systems and storage solutions can accelerate insights, enhance reliability and create a sustainable foundation for your business-critical SQL Server applications.**

**Learn more →**

### 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.



**Corporate Headquarters**  
2535 Augustine Drive  
Santa Clara, CA 95054 USA  
[hitachivantara.com](http://hitachivantara.com) | [community.hitachivantara.com](http://community.hitachivantara.com)

**Contact Information**  
USA: 1-800-446-0744  
Global: 1-858-547-4526  
[hitachivantara.com/contact](http://hitachivantara.com/contact)