

Solution Profile

Hitachi Virtual Storage Platform 360 Clear Sight Observability

AIOps observability enables you to observe, report and optimize your Hitachi Virtual Storage Platform One (VSP One) data platforms from virtually anywhere.

Deliver AIOps Intelligence

Improve resource visibility, optimization and planning with AI-driven analytics accessed via SaaS, on-premises or a mobile device. Gain predictive analytics to aid in capacity forecasting, improving energy efficiency and reducing costs.

Enable Anomaly Detection

VSP 360 anomaly detection continuously analyzes storage workload performance to enhance monitoring and proactively identify issues before they can impact users. VSP 360 automatically highlights abnormal trends, performance bottlenecks, and potential security concerns that warrant further investigation.

Optimize Performance

Unify AI-driven observability to streamline managing key performance indicators, including operational health, transfer rates and error alerts. Observe performance and capacity utilization to optimize storage resources and response times to ensure application-specific service levels are being met.

Accelerate data innovations with VSP 360 Clear Sight observability by delivering AIOps insights to help you make informed decisions to improve, optimize and plan your data management operations.

Increasingly, today's data storage infrastructure stretches across hybrid cloud environments which creates multiple data silos with heterogeneous storage systems. Data management complexities make it challenging to keep up with continued data growth, evolving application requirements, and ongoing budget constraints. As application workloads become more complex, efficient data management operations require varied analytical approaches and 24x7 visibility to identify and resolve issues quickly.

AIOps can address the challenges of rapid data growth that leads to fragmented data silos and diverse storage resources with limited visibility. Gain AIOps observability across VSP One data platforms, whether block, file or object, to optimize key performance indicators for efficient resource management.

With VSP 360 Clear Sight observability, you can gain operational intelligence to work faster and smarter to scale your hybrid cloud data infrastructure with new data services and integrated governance to improve data resiliency.

- Proactively optimize storage resources to keep your applications running smoothly and resolve issues before they occur.

- Gain insights into energy usage and carbon impacts to reduce energy costs and improve sustainability.
- Simplify resource planning with custom capacity reports, workload analysis and historical trend analysis.
- Utilize integrated anomaly detection to filter through the noise and quickly be alerted of performance issues, unusual workload patterns and shared resource contention.

Elevate Data Management Operations

VSP 360 provides AIOps insights to optimize data management operations for VSP One data platforms so you can:

- Monitor operational system health via a cloud-based SaaS portal or mobile app.
- Optimize storage performance and capacity utilization using on-premises telemetry data analysis and anomaly detection.
- Deliver actionable AIOps intelligence to improve performance, capacity planning, system updates and energy efficiency goals.

Improve VSP One Data Services

Effectively manage your VSP One data infrastructure with integrated AIOps recommendations to improve decision-making, security and data governance to close the gap required to increase data resilience and operational efficiency. VSP 360, combined with VSP One data platforms, enables enterprise-wide operational visibility with the following key VSP 360 management benefits:

- **Control** with common VSP One fleet management across block, file, object and software-defined storage (SDS) to simplify data platform and business application deployments.
- **Observe** with AI predictive insights to optimize, plan and troubleshoot shared storage resources.
- **Govern** with new operational insights to optimize data solutions effectively across their respective data lifecycles.

VSP 360 Clear Sight observability, combined with integrated configuration management capabilities, can simplify common administrative tasks and improve data operations for VSP One platforms by helping you:

- Unify storage management operations regardless of where the data resides
- Uncover new data analytics to improve data lifecycle management
- Gain integrated observability across VSP One data solutions to summarize risks across an enterprise deployment and obtain intelligence to help identify compliance issues with GenAI data sets

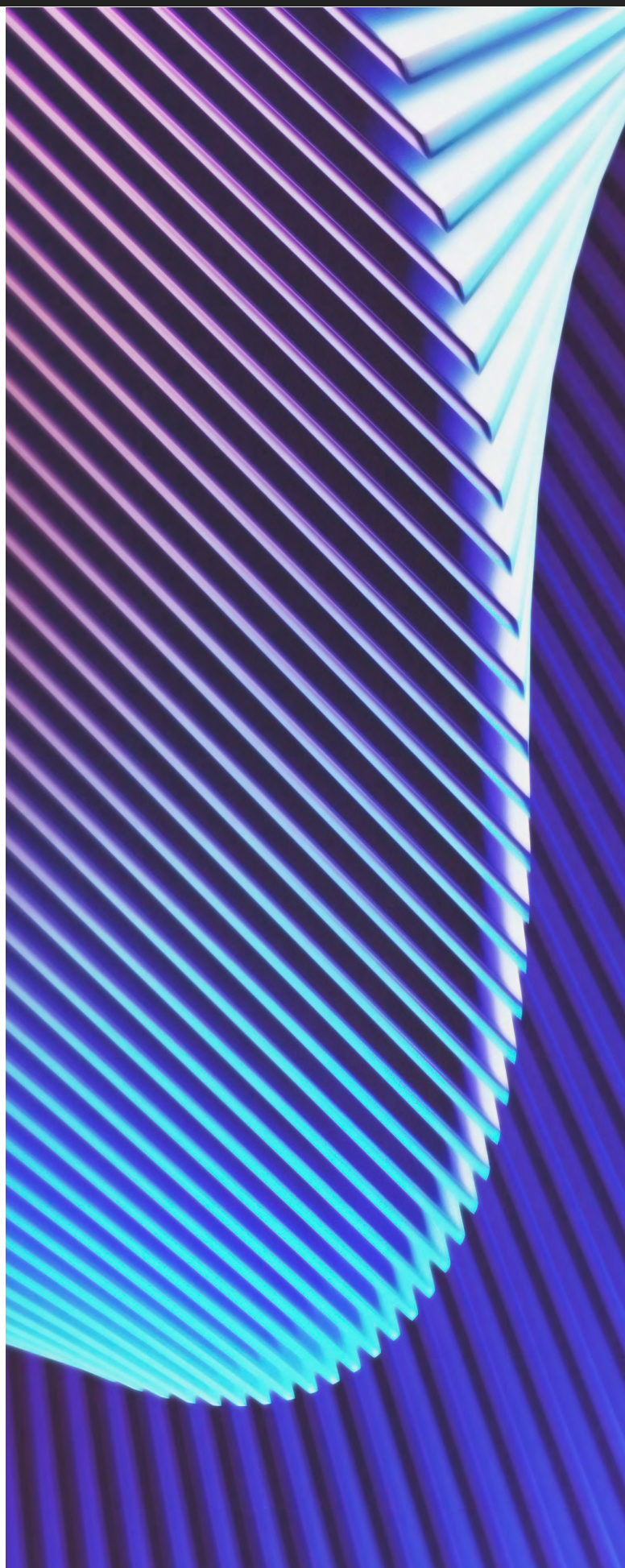
Optimize VSP One Operational Efficiency

VSP 360 observability helps improve VSP One asset management and optimize capacity, resource performance and risk management. It delivers new visibility across all VSP data platforms, whether located at a single site or distributed across multiple enterprise locations. Its centralized dashboards offer detailed status updates on system configurations, including drives, power, cooling, etc., to help improve system health, energy efficiency and resource capacity planning.

Proactively Identify Problems

AI-driven analytics can quickly identify operational trends, performance issues and at risk resources providing early notification of potential problems. VSP 360 Clear Sight predictive analytics provides early risk detection for capacity shortages, system microcode updates, hardware faults and sustainability goals.

VSP 360 anomaly detection monitors storage resources for unusual patterns that may signal potential security issues. When combined with Ransomware Detection Powered by CyberSense, these anomalies can be further analyzed and verified for signs of ransomware to help ensure your data remains protected.



Expand Storage Performance Insights

VSP 360 advanced analytics utilizes on-premises telemetry data analysis to analyze and plan VSP One storage resources. Gain in-depth visibility from application to storage resources to improve application workload performance and capacity. These advanced performance analytics help optimize key performance indicators, including IO throughput, response times, latencies, capacity utilization and data reduction ratios. When issues do arise, quickly identify anomalies and troubleshoot performance bottlenecks with suggested remediation actions to reduce problem resolution times.

Uplevel Customer Service and Support

Significantly reduce the time and effort required for VSP One data platform service and support. Use VSP 360 to observe VSP system details, health status, alerts and support entitlements. This support integration with Hitachi Vantara and your trusted channel partners enables tailored recommendations for performance improvements, comprehensive health checks and proactive support services. Generate automated system software updates remotely that are managed by Hitachi Vantara support to easily keep your VSP One system software up to date.

Optimize Your Data Foundation with Hitachi VSP 360

Achieve AIOps Observability

Deliver cloud-based AI-driven intelligence to improve operational efficiency, capacity upgrades and risk management for your data resources. Comprehensive performance analytics with multiple observability views via SaaS, on-premises, or mobile device to simplify storage performance and capacity management for users across various skill levels.

Gain Anomaly Detection

VSP 360 anomaly detection automatically analyzes normal storage workload behavior in your environment and proactively identifies unusual performance conditions without requiring complex setup or machine learning expertise. By continuously monitoring application storage performance metrics, such as IOPS, response times and transfer rate, users can gain improved operational visibility, faster problem identification and reduced risks of unexpected outages.

Utilize Predictive Analytics

Use predictive analytics based on historical trends to improve resource planning for new applications. Ensure data operations of diverse application workloads are continuously optimized as requirements change over time.

Optimize Storage Performance and Capacity

Enable advanced on-premises storage reporting and analysis to improve performance and capacity planning for VSP One data platforms. Quickly diagnose and troubleshoot performance bottlenecks while providing recommendations to remediate common issues.

Choose the right observability approach from SaaS, mobile, to advanced analytics on-premises to optimize your data infrastructure.

- **VSP 360 Clear Sight (SaaS)**
Simplify unified AIOps intelligence to proactively optimize storage resources and ensure system health. Deliver a cloud-based centralized view for all VSP One data platforms with actionable insights to improve operational efficiency, capacity upgrades and risk management.
- **VSP 360 Clear Sight (Mobile)**
Clear Sight mobile app provides on-the-go access to VSP 360 observability from Apple or Android mobile devices, giving you the visibility you need to stay connected from anywhere. Customize your feed to include the VSP 360 observability information that matters to you most, including support case updates, capacity utilization and system alerts.
- **VSP 360 Advanced Analytics (On-Premises)**
VSP 360 advanced analytics on-premise enables storage performance and capacity optimization by application workload. Employ detailed, near real-time telemetry data analysis and anomaly detection to optimize storage performance, improve capacity planning and troubleshoot performance bottlenecks.

VSP 360 Clear Sight - A Clear Advantage.

With over 20 years of experience monitoring over 50,000 systems globally, VSP 360 Clear Sight observability ensures a high-quality standard that enables you to optimize system health and resource management for VSP One data platforms. This vast observability coverage enables you to proactively address service issues before they can impact users, improve system reliability and maintain operational continuity.

VSP 360 Clear Sight observability integrates with VSP One data platforms to improve storage performance, capacity planning, anomaly detection and enhanced support services, helping you optimize system health, operational efficiency and risk management.

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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.

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