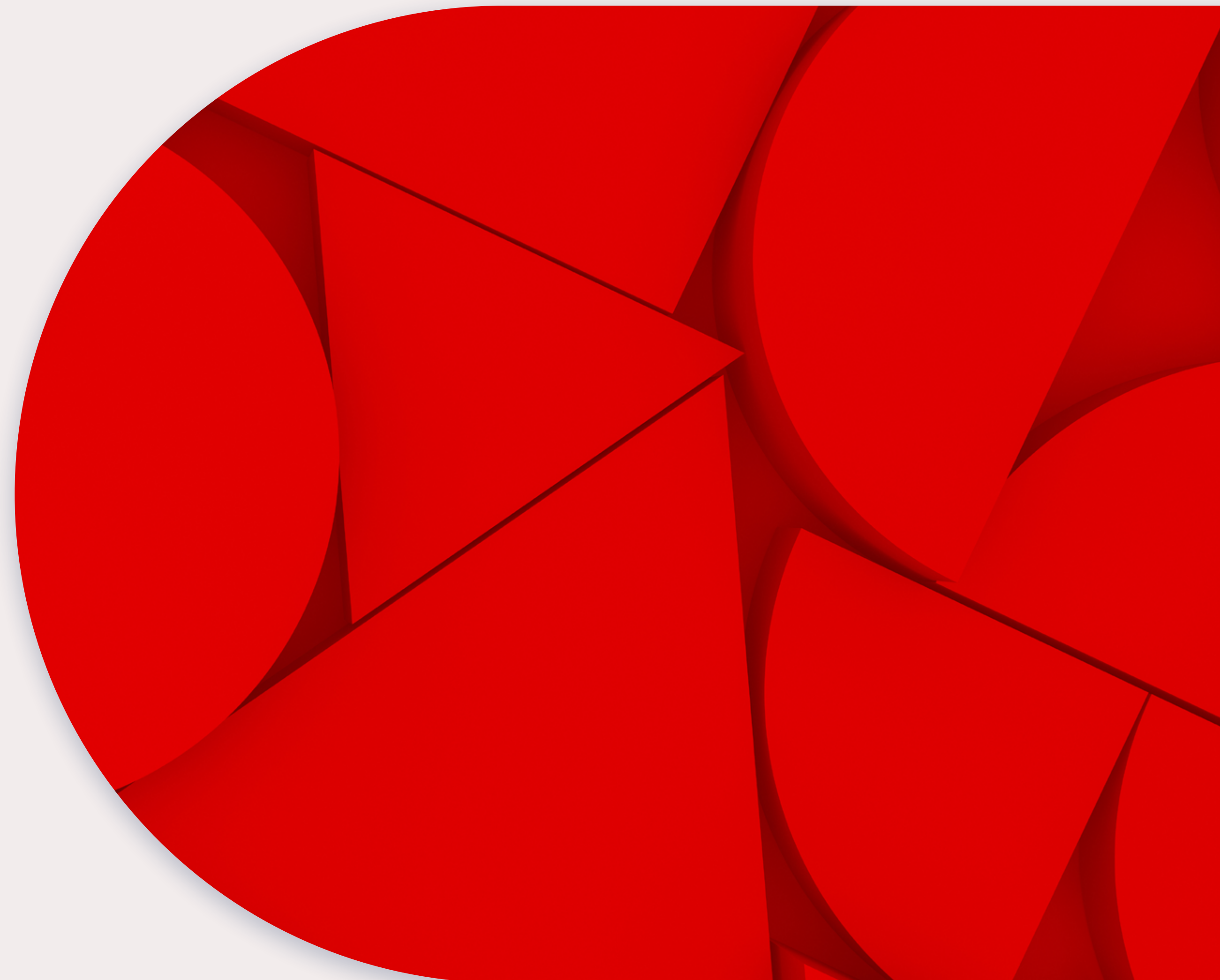**Hitachi Vantara**

eBook

Unified Data Management Buyer's Guide

Strategies to Simplify and Elevate Data Management Operations

Executive Summary

Today's data-intensive applications are driving the need to modernize data management operations that reside in disparate application data silos, from the edge to the data center and the cloud. Data is often stored across diverse storage systems with limited visibility. Lacking a holistic approach creates new data management challenges, making it difficult to efficiently store, manage and gain operational insights across all of your data.
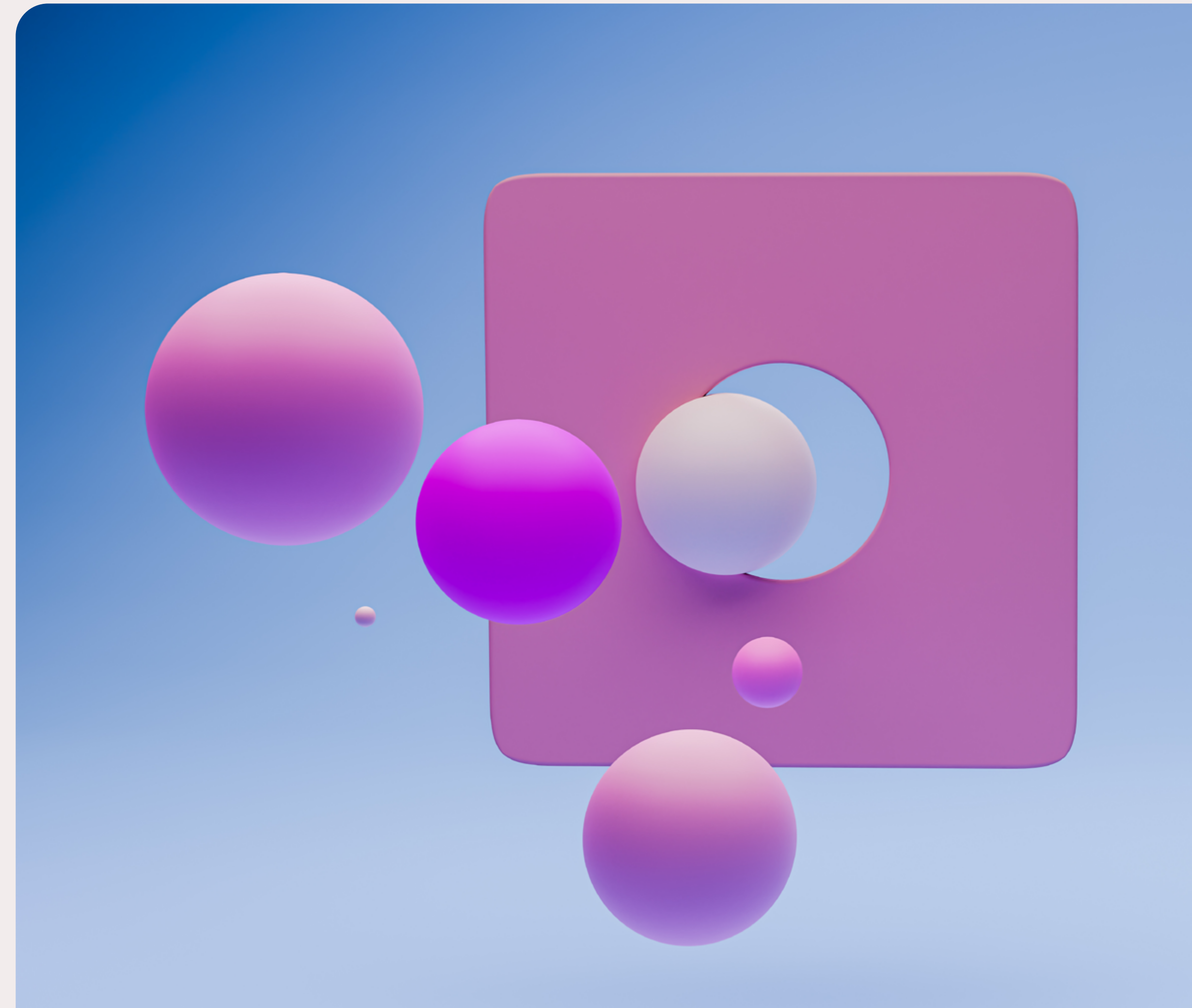
Harness the Power Within Your Data

Unified data management can help improve data resource efficiency and uncover operational insights, creating new business value for all of your data assets, regardless of their location. Achieving unified data management requires a modern approach to address these key data management challenges:

1. Scaling storage resources to cost-effectively handle continuous data growth.

2. Controlling data management costs and minimizing the need for multiple management tools.

3. Expanding visibility across varied data silos to better optimize and govern data operations.

4. Efficiently address data-intensive GenAI applications.

This buyer's guide will show you how to unify data operations to realize the full potential of your data while addressing data growth, limited visibility and the management complexity that may be hindering efficient operations for today's demanding application workloads.

Hitachi Virtual Storage Platform One (VSP One)

Hitachi VSP One data platforms deliver both structured and unstructured data solutions to meet a comprehensive set of data availability, scalability and reliability requirements across varied application workloads. VSP One can transform your data storage infrastructure, enabling you to easily scale data storage resources with new reliability and resiliency, which facilitates the quick deployment of new business-critical applications.

Data Foundation for Innovation — Deploy data platforms with the flexibility and efficiency to address a wide range of hybrid cloud data solutions that meet both your present and future data needs.

Address Multiple Storage Data Types — Enable one data platform with a 100% data availability guarantee across block, file, and object-based storage requirements.

The VSP One Data Platform Advantage

1. **No Data Silos and No Limits** – Scalable data platforms that bring together the best of enterprise storage with the agility and scalable of the cloud – no matter where the data resides.

2. **Virtual Storage Platform One Guarantees** – Reliable and proven storage solutions with tailored guarantees that directly address your business application requirements.

3. **Ensure Application Service Levels** – Deliver to mission-critical application service levels with optimized performance and capacity to ensure your application data is always available, resilient, and protected.

Challenge: Managing Data Growth

Enable a single data plane with common data services to efficiently manage data growth across diverse data silos. Simplify storage resource management to easily build data infrastructures with the Hitachi Storage Virtualization Operating System (SVOS), which powers all the Hitachi VSP One data platforms. Address a broad range of business application demands with integrated data management operations that deliver the simplicity, reliability and scalability you need to control overall storage costs.

Advanced Storage OS — Use adaptive inline data reduction, including deduplication and compression, to effectively increase data capacity. Optimize workloads while balancing application performance and storage efficiency.

Industry-leading Storage Virtualization — Use storage virtualization to enable common data services and simplify data management operations including virtualizing third-party storage arrays. Consolidate storage resources for a higher return-on-investment (ROI) with a high-speed, virtualized front end that can accommodate aging storage arrays, thereby extending the life of previous storage investments.

The Storage OS Advantage

1. **Optimized Storage Performance** — Deliver superior flash storage performance built-on a proven enterprise storage legacy for optimized capacity utilization, high availability and data protection.

2. **Integrated Storage Software** — Leverage advanced storage management features, including active-active storage clustering, automated AI data operations, policy-based data mobility and comprehensive business continuity to build enterprise storage availability, reliability and resiliency.

3. **Secure Ransomware Protection** — Use integrated data protection and security practices to enhance cyber-resiliency for critical data volumes.

Challenge: Reduce Data Management Complexity

Adopt a unified management approach with Hitachi Virtual Storage Platform 360 (VSP 360) to address current IT challenges, including managing data capacity growth, reducing costs, and improving data resiliency. Simplifying data management enables IT organizations to efficiently control, observe, and govern data management operations, leading to improved operational efficiencies. Enable common management practices for VSP One data platforms across block, file, and object storage from a single portal, reducing management tool sprawl and accelerating the deployment of new data services.

Efficient Data Infrastructure Management — Unify management capabilities to improve data operations, observability and data lifecycle management. Lower costs by consolidating data silos, optimizing data placement, and eliminating the use of multiple management tools, which enables IT teams to accomplish "More with Less."

Streamline Data Operations — Achieve new data management efficiencies through simplified administrative operations to improve your ability to control, optimize and protect data services – at any scale. Leverage common management operations across diverse data silos with orchestrated resource delivery based on best practices.

The VSP 360 Advantage for Unified Data Management

1. **Gain Management Control** — Simplify enablement of data services customized for your business applications.

2. **Consolidate Multiple Management Tools** — Efficiently control, observe and govern data services with one unified data management platform solution to address IT skill gaps and eliminate the use of multiple administrative tools.

3. **Fast Track IT Integration** — Accelerate automated workflow orchestration with common management APIs to easily integrate with existing IT management frameworks.

Challenge: Gain Data Visibility and Observability

AIOps observability provides enhanced visibility into your data operations. With AI operational intelligence, you can make informed decisions to optimize, manage and plan your data management operations to accelerate new data innovations.

Gain AIOps Insights — Use actionable recommendations to enhance storage performance, capacity planning, and risk management to improve data platform health and operational efficiency.

Choose the Right Observability Approach — Select from Software-as-a-Service (SaaS), mobile or advanced analytics on-premises to optimize performance and capacity utilization of storage resources.

The VSP 360 Advantage for Observability

1. **AI Predictive Analytics** — Leverage over 20 years of experience monitoring 50K+ storage systems globally to improve system reliability and enable expanded support services to proactively address service issues before they can impact users.

2. **Improved System Health** — Enable new health, capacity and performance recommendations that can guide less technical users on the next steps for improvement. Utilize AI predictive insights to streamline the management of key performance indicators, including operational status, capacity, energy efficiency and error alerts.

3. **Advanced Performance Management** — Use integrated telemetry data analysis on-premises to optimize storage resource response times and latencies to ensure you are meeting application-specific service levels. Report and analyze storage resource inventory, performance, and capacity usage at a global, site or system level.

Challenge: Improve Data Governance

Accelerate data-driven insights and improve operational outcomes across data solutions to achieve new levels of operational efficiencies and governance for all your data. Centrally manage compliance to defined data policies and effectively manage data solutions across their respective data lifecycles.

Enable Data Governance — Ensure data governance for key initiatives, including AI, Personally Identifiable Information (PII) protection, data classification and cyber-resiliency. Accelerate the discovery of new data insights to automate data management operations.

Centralized Data Operations — Solve AI data challenges by adopting common data services to address a range of modern application workloads. Utilize AIOps insights to simplify storage management complexity and ensure the right data is at the right place at the right time.

The VSP 360 Advantage for Data Governance

1. **Data Lifecycle Management Insights** — Integrate new data insights across large application data sets to efficiently manage data solutions throughout their respective lifecycles.

2. **Optimize Data Operations** — Realize AI-driven data placement and automated operations.

3. **Ensure Data Policy Compliance** — Enforce data governance policies, including data guarantees, classification, mobility and protection.

Build Unified Data Management with Hitachi Vantara

Unified Data Management Feature Highlights

1. Use a common data plane and control plane to simplify data management operations.

2. Quickly deploy shared data services using a single storage OS.

3. Deliver on 100% data availability guarantees.

4. Gain observability intelligence accessed via SaaS, advanced analytics (on-premises) or a mobile device.

5. Utilize AI predictive analytics to enhance system health, improve capacity utilization and optimize performance.

6. Unify data service operations across diverse data silos to enhance productivity of IT data management teams.

7. Effectively manage data infrastructure operations, observability and data management lifecycles.

8. Improve your ability to manage, optimize and protect data services with VSP 360 unified management – at any scale.

Virtual Storage Platform 360 (VSP 360)

Experience unified data management operations that controls, observes and governs VSP One data solutions without constraints.

VSP 360 Clear Sight

Gain actionable AIOps insights to better optimize, plan and troubleshoot data management operations.

Virtual Storage Platform One (VSP One)

Leverage scalable, high-performance enterprise-class storage across block, file and object based requirements with 100% data availability guarantee and certified energy sustainability for diverse application workloads.

Storage Virtualization Operating System (SVOS)

Use superior data services, optimized resource performance and proven resiliency for VSP One data platforms.

Hitachi Vantara

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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