



## Solution Profile

# Accelerate Cloud Migration With VSP One SDS

Simplify cloud migration with less disruption and lower TCO

## SDS Cloud Mobility

Move data to Amazon Web Services® (AWS®), Google Cloud Platform® (GCP®) and Microsoft® Azure® with resilient SDS for low-disruption migration.

## Lower Cloud TCO

Reduce cloud storage costs with efficiency, centralized management and consistent data services.

## Unified Hybrid Control

Use Universal Volume Manager (UVM) and Hitachi Universal Replicator (HUR) to unify operations across on-premises, third-party and cloud storage environments.

## Legacy outsourced storage makes cloud migration high risk. Regulated industries need a smarter path to hyperscaler platforms.

Organizations operating legacy outsourced infrastructure face mounting pressure to migrate workloads to hyperscaler cloud platforms. In regulated industries, many teams manage a complex storage estate spread across multiple on-premises data centers, often through outsourced or joint-venture arrangements. Some migration approaches rely on additional software layers or custom development to move data from legacy systems into cloud or alternate storage environments, with replication costs that can increase based on the volume of data copied.

In addition, conventional cloud migration paths often require technology-by-technology transitions, added tools and services to bridge storage differences. For regulated industries, that can increase execution risk, extend timelines and raise operational and compliance exposure during cutover.

These models can add complexity, extend timelines and raise costs before the target platform is fully operational. For organizations already using Hitachi storage, this added migration layer is often unnecessary because our Universal Volume Manager and Hitachi replication technologies provide a more efficient path to move and protect data across environments.



### Business Continuity

Moves workloads to cloud without disrupting critical operations.



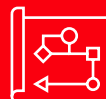
### HPEC Resilience

Boosts resilience, reduces overhead and improves efficiency via Hitachi Polyphase Erasure Coding (HPEC).



### Storage Efficiency

Delivers guaranteed savings across block and SDS environments.



### Workload Isolation

Uses snapshots to isolate workloads before replication or cloud migration.

### Simplify Migration With VSP One SDS

Hitachi Virtual Storage Platform One SDS (VSP One SDS) is software-defined storage that delivers enterprise-class data services through software rather than proprietary storage hardware. It enables organizations to deploy resilient block storage across major hyperscalers, simplifying deployment choices while maintaining operational consistency.

VSP One SDS shares a common data plane and common control plane with the broader VSP One portfolio, enabling consistent data services, management and mobility across edge, core and cloud environments. Deployed on a hyperscaler alongside VSP One Block and Universal Volume Manager, it supports a vendor-agnostic, low-disruption migration approach for enterprises managing complex, on-premises storage estates.

For organizations that have already moved some workloads to Google Cloud, VSP One SDS can also simplify the next phase of modernization by supporting a more transparent transition to software-defined storage within the same cloud environment. This helps teams extend consistent data services, operational control and cost efficiency across a broader set of workloads without introducing a separate storage model — creating additional business value from prior cloud migration investments.

VSP One Block with UVM virtualizes legacy storage under a single management layer, while Hitachi Universal Replicator enables live replication to VSP One SDS Cloud for faster, lower-risk cutovers. Post-migration, VSP One SDS provides:

- Persistent storage intelligence with compression.
- Resilient data services via HPEC.
- Enterprise encryption.
- Centralized governance through Hitachi Virtual Storage Platform 360 (VSP 360) management software.

Compared with native hyperscaler storage options, it can help organizations maintain a more consistent operating model across on-premises and cloud environments while lowering TCO and reducing operational complexity.

### Use Cases

#### Migrate Critical Workloads With Less Disruption

For organizations managing complex, on-premises storage estates, traditional migration approaches require separate tooling for each storage platform — multiplying risk, timeline and cost. Any service interruption during migration can create compliance exposure and operational disruption that regulated industries cannot afford.

VSP One Block with Universal Volume Manager virtualizes the entire storage estate under a single abstraction layer. Hitachi Universal Replicator then performs live replication to VSP One SDS Cloud on the hyperscaler — supporting a low-disruption cutover that helps minimize downtime risk during the transition.

The result is a shorter migration window, reduced execution risk and stronger service continuity for business-critical workloads.

#### Lower Cloud TCO for Banking Workloads

Native hyperscaler storage options may not provide the same efficiency economics for data-intensive banking environments, leaving financial institutions with higher cloud storage consumption and ongoing cost pressure.

VSP One SDS Cloud on the hyperscaler delivers 3:1 storage efficiency, directly reducing storage capacity consumed and lowering TCO. On-premises, VSP One Block guarantees 4:1 capacity efficiency. Compression performance varies by workload:

- Office data achieves approximately 90-96% reduction.
- Virtualization environments approximately 60-70%.
- Database workloads approximately 60-70%.

#### Maintain Workload Control During Migration

For banks and financial institutions, moving sensitive workloads to the cloud requires more than data transfer. Teams need a way to isolate workloads, preserve protection

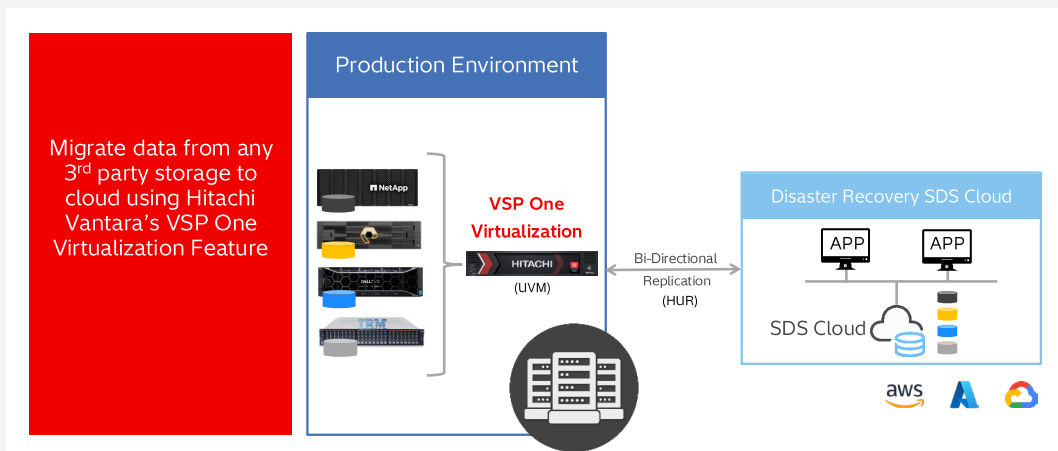


Figure 1: Leverage VSP One SDS, Universal Volume Manager and Hitachi Universal Replicator to replicate, migrate and manage data across hybrid environments with greater efficiency and consistent control on public clouds.

## Accelerate Cloud Migration With VSP One SDS

policies and maintain visibility as data is replicated or migrated across environments.

VSP One SDS supports this approach through snapshot-based workload isolation, replication and centralized management across on-premises and cloud deployments. By managing through VSP 360, teams can apply consistent controls for provisioning, protection and security while data moves to its target environment. Hitachi Polyphase Erasure Coding also enhances resilience and availability, helping reduce operational overhead as workloads transition.

The result is a more controlled migration path for regulated workloads, with governance and protection maintained throughout the transition.

### Migrate Smarter in the Cloud

Hitachi Virtual Storage Platform One SDS, combined with VSP One Block and Universal Volume Manager, gives regulated industries a more unified path from legacy storage to cloud operations with less disruption, lower cloud TCO and tighter cost control. It also helps teams maintain consistent governance, security and compliance as data moves across on-premises and cloud environments.

From lower-disruption migration with Hitachi Universal Replicator to storage efficiency, encryption and centralized management, the platform supports value at each stage of the transition.

Once the migration is complete, it can also provide a foundation for a broader data management strategy through infrastructure-as-code solutions such as Terraform and Ansible. IT teams gain simplicity, finance teams can improve cloud cost efficiency and lower TCO, and compliance teams can maintain greater confidence throughout migration and ongoing operations.

[Learn More](#)

*ITIC found **97%** of large enterprises say one hour of downtime costs more than **\$300,000** on average.*

— [Information Technology Intelligence Consulting](#)

### 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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