

*Solution Profile*

# Hybrid Cloud Storage for Native Amazon S3® Workloads

Enterprise-class object storage combining the best of public and private clouds



## *Simplified Hybrid Cloud Data Management*

Achieve seamless data mobility across on-premises, cloud and edge storage using S3-compatible APIs, policy-based tiering and metadata-driven automation

## *Enterprise-Grade Security and Compliance*

Meet compliance mandates and defend against ransomware via object storage with AES-256 encryption, S3 Object Lock, legal hold and audit logging

## *High-Performing, Scalable Object Storage*

Scale compute and storage independently, automate lifecycle management and reduce TCO while supporting AI, analytics and edge workloads

## **Fragmented data silos, cloud cost unpredictability and compliance risks are driving organizations to seek scalable, secure, hybrid cloud storage solutions like Hitachi Content Platform (HCP).**

Organizations today are grappling with explosive growth in unstructured data — from sensors, mobile devices, machines and distributed applications. This data is often fragmented across silos, making it difficult to correlate, analyze and extract business value. Many enterprises lack visibility into their data assets, leaving vast amounts of information unclassified, inactive and underutilized. This not only hampers innovation but also limits the ability to scale AI and analytics initiatives.

A cloud-only strategy, while initially appealing, introduces several risks. Latency between users and cloud-hosted data can degrade performance, especially for real-time applications. Data sovereignty and governance become harder to enforce, increasing the risk of noncompliance with privacy regulations. Additionally, cloud costs can spiral due to hidden fees, unpredictable usage patterns, and the need to retrofit basic storage into enterprise-grade solutions.

As data volumes grow and workloads diversify, organizations need a more flexible and resilient approach. Hybrid cloud storage offers a way to balance performance, cost and control by combining on-premises infrastructure with cloud scalability. It enables businesses to optimize data placement based on value, automate lifecycle management and maintain compliance across environments.

To succeed, enterprises must adopt storage solutions that support S3-native applications, integrate with modern data pipelines and provide secure, scalable access from edge to core to cloud. The ability to classify, tier and move data intelligently — while maintaining visibility and governance — is critical to unlocking the full potential of their data.

## Unstructured Data Growth Outpaces Legacy Storage Models

Organizations face mounting challenges as they manage vast volumes of unstructured data scattered across silos, making it difficult to extract insights or support AI initiatives. A hybrid cloud object storage solution addresses these issues by enabling centralized data management across on-premises and cloud environments.

This solution supports S3-native applications and integrates with modern data pipelines, allowing seamless data movement and classification based on business value. Policy-based tiering automates storage decisions, reducing manual overhead and optimizing cost. By combining edge-to-core-to-cloud access with metadata enrichment and real-time data orchestration, businesses gain visibility and control over their data assets.

This architecture also mitigates the risks of cloud-only strategies — such as latency, data sovereignty violations and unpredictable costs — by offering flexible deployment models and governance controls.

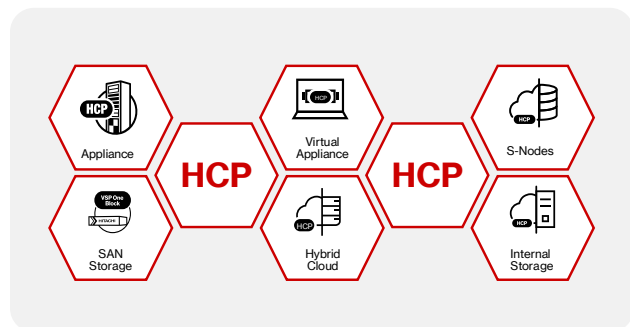


Figure 1. Deployment flexibility and tiered storage with HCP.

## Hybrid Cloud Object Storage That Unifies, Secures and Scales Data

Hitachi Content Platform offers organizations a powerful solution for managing the exponential growth of unstructured data across hybrid and multicloud environments. By supporting S3-compatible APIs and integrating with both cloud-native and traditional applications, HCP enables seamless data mobility and centralized control, eliminating silos and simplifying operations.

Its policy-based tiering and metadata-driven automation allow businesses to classify, move and retain data based on its value, improving performance and reducing storage costs. This intelligent lifecycle management ensures that data is always in the right place at the right time, whether for analytics, compliance or long-term retention.

Security and compliance are built into the architecture, with features like immutable object locking, encryption and legal hold capabilities that help meet stringent regulatory requirements. HCP also supports multisite replication and geo-erasure coding, ensuring high availability and resilience against cyber threats.

With flexible deployment options — software-defined, appliance-based or cloud — HCP empowers organizations to scale efficiently, innovate faster and unlock the full value of their data.

## Secure, Scalable Object Storage for Hybrid Cloud Workloads

HCP helps organizations manage unstructured data across hybrid and multicloud environments with unmatched scalability, security and flexibility. It supports S3-compatible APIs and integrates seamlessly with both legacy and cloud-native applications, enabling centralized control and data mobility. Policy-based tiering and metadata-driven automation allow businesses to classify, move and retain data based on its value, optimizing performance and reducing storage costs. Built-in features like immutable object locking, encryption and legal hold ensure compliance with regulatory mandates and protect against ransomware.

HCP architecture supports multisite replication and geo-erasure coding for high availability and disaster recovery. With flexible deployment options — software-defined, appliance-based or cloud — organizations can scale compute and storage independently to meet evolving workload demands. Whether supporting AI/ML, analytics, backup or long-term retention, HCP empowers enterprises to unlock the full value of their data while maintaining control, reducing complexity and lowering total cost of ownership.

### Scalable Hybrid Cloud Storage

HCP supports exabyte-scale growth and multiprotocol access across on-premises, cloud and edge storage. It enables policy-driven tiering and seamless integration with legacy and cloud-native applications, ensuring unified data management and operational efficiency.

*Manages massive unstructured data across environments with unified access and efficient scaling.*

### S3-Compatible Object Storage

HCP offers Amazon S3 API compatibility and native REST support, allowing seamless integration with modern cloud applications. It also supports legacy protocols like NFS, CIFS, SMTP and WebDAV for broad interoperability.

*Ensures seamless integration with cloud-native apps using standard S3 and REST APIs.*

## Policy-Based Tiering and Lifecycle Automation

Automates data movement across storage tiers based on time, capacity or metadata rules. Optimizes performance, cost and compliance while reducing manual intervention.

*Optimizes storage costs and performance through automated data movement.*

## Flexible Deployment Options

Deploy as software-defined storage, physical appliances or hybrid models. Supports SAN, NAS, HCP S series and public cloud targets for maximum architectural flexibility.

*Adapts to any infrastructure with software, appliance or hybrid models.*

## Multitenancy and Namespace Isolation

Supports up to 1,000 tenants and 10,000 namespaces with isolated quotas, policies and access controls. Enables secure multi-application or multi-customer environments on a single platform.

*Supports secure multitenant environments with isolated control and access.*

## Comprehensive Data Protection Services

Includes replication, deduplication, shredding, content verification and erasure coding. Ensures data integrity, availability and compliance with customizable protection levels and retention policies.

*Ensures data resilience and integrity with built-in protection mechanisms.*

## Immutable Object Locking

Provides WORM storage and S3 Object Lock to ensure data immutability. Legal hold and retention policies support regulatory compliance and protect against ransomware and unauthorized changes.

*Protects data integrity and supports compliance with tamper-proof storage policies.*

## Advanced Metadata Management

Supports up to 1GB of custom XML metadata per object, enabling deep classification, search and analytics. Multiple annotations allow teams to collaborate independently, improving data governance and analytical precision.

*Improves data classification, governance and analytics with rich, extensible metadata.*

## Summary

Hitachi Content Platform empowers organizations to simplify hybrid cloud data management, reduce storage costs and strengthen security and compliance. With scalable architecture, intelligent automation and deep integration across cloud-native and traditional environments, HCP helps unlock the full value of unstructured data while ensuring resilience, governance and operational efficiency across the enterprise.

## Hitachi Resilience: Over 20 Years of Leading Object Storage Innovation

For decades, Hitachi has delivered resilient, enterprise-class storage solutions built for performance, security and scale. Hitachi Content Platform extends this legacy by integrating seamlessly with complementary technologies like HCP Anywhere Enterprise, and Hitachi Content Software for File. Together, these solutions form a unified data foundation that supports hybrid cloud workflows, secure collaboration and advanced analytics.

With built-in data protection, multitenancy and policy-driven automation, organizations can manage unstructured data across edge, core and cloud environments. This tightly integrated portfolio eliminates silos, simplifies operations and ensures compliance — empowering businesses to unlock the full value of their data while maintaining control, agility and long-term sustainability.

**Ready to transform your business with HCP?**

**Learn more →**

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