

Data Protection as a Service From Hitachi Vantara

Safeguard Data in the Cloud

OVERVIEW

Business continuity and data resilience are integral in today's dynamic IT environment. You need fast, uninterrupted access to your business applications and mission-critical data. Moreover, business and IT continuity is among the top 10 investment priorities for IT leadership across the globe.¹

¹ Source: [CIO](#), "Top Priorities for CIOs in 2019" Published December 2018



Digital Transformation Powers Business Transformation

Today's organizations are investing in new technologies and solutions to advance their digital transformation strategies. In fact, according to 50% of enterprise executives, digital transformation continues to be a top strategic priority.² They are driven by factors, such as:

- A mobile workforce that requires new types of connectivity.
- Massive new data streams and increasing storage needs.
- Rising cybersecurity threats and strict compliance regulations.
- Opportunities for increased workload efficiency.
- Flexible IT consumption models.

Exponential data growth throughout all ecosystems also drives the need for digital transformation. For every new file, record or object that is created, many copies are generated. Businesses need backup for operational recovery, remote replication for business continuity and disaster recovery, and archiving for long-term retention required for regulatory compliance. Data loss can lead to lost revenues, privacy violations, lawsuits and other setbacks.

We can help you address these challenges, implement the right data protection strategy and drive new business capabilities.

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With Hitachi solutions, we know that systems will always be available around the clock. Not only does this enable us to meet tough SLAs and keep customers happy, but it also frees up time so that we can focus more time and energy on developing innovative new digital services.

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Helmut Stark
Storage Systems Leader
DATEV

² Source: [Forbes Insights and Hitachi](#), “How to Win at Digital Transformation: Five Steps Successful Digital Transformation Leaders Are Taking” Published November 2016

A Transition to Modern Data Protection Presents Challenges

Adopting a cloud-enabled data protection strategy is critical to your organization's future. Data Protection as a Service from Hitachi Vantara (DPaaS) helps you develop a fine-tuned business continuity and disaster recovery strategy to fit your unique business requirements.

Enhanced Operational Efficiencies

Keeping your data safe while maximizing operational performance in your infrastructure is essential. Our modern approach to data protection enhances the efficiency of high-speed storage arrays and dramatically reduces backup windows.

Accurate Data Severity Classification

Our data protection solution helps establish service level agreement (SLA) policies that provide accurate data severity classification. Your organization is equipped to meet different SLAs with various regulatory and audit compliance requirements.

Maximum Return on Investment (ROI)

Our service consultants help you leverage experience within your organization to plan, design, deploy and operate Data Protection as a Service in a timely manner to ensure maximum ROI in a cloud-enabled infrastructure.

Downtime Is Not an Option

The impact of downtime can be financially devastating. In fact, 98% of large enterprises report that a single hour of downtime per year costs them over \$100,000; 81% report that the cost exceeds \$300,000; and 3 in 10 enterprises report that one hour of downtime costs them \$1 million or more per year.³

Furthermore, 81% of organizations now require a minimum of 99.99% availability. This is the equivalent of 52 minutes of unplanned outages related to downtime for mission-critical systems and applications: just 4.33 minutes of unplanned monthly outages for servers, applications and networks.⁴

Only **35%** of outages are caused by natural disasters, **45%** are operational, and **19%** are due to human error.¹

70% of business and application owners will have more self-service control over their data protection services, up from 30% today.²

¹ Source: [DataCore, "17 Shocking Statistics about Disaster Recovery and Business Resiliency —Where Does Your Organization Stand?"](#) Published April 2018

² Source: [Allied Market Research](#), "Data Protection as a Service (DPaaS) Market" Published January 2017



^{3,4} Source: [Information Technology Intelligence Consulting \(ITIC\)](#), “Hourly Downtime Tops \$300K for 81% of Firms: 33% of Enterprises Say Downtime Costs > \$1M” Published May 18, 2017

Your Success Begins With the Right Data Protection Strategy

As organizations increasingly move to cloud technology to gain agility, flexibility and cost savings, they are reconsidering how to safeguard their critical data and applications. Cloud computing and software-defined data centers, with virtualized infrastructure components delivered as a service, have elevated the need for data protection.

Industry-Best and Cloud-Enabled Data Protection Capabilities

Data Protection as a Service from Hitachi Vantara offers a unified approach to data protection that minimizes complexity while providing full coverage. The Hitachi Vantara Global Services Solutions team delivers a scalable copy data management platform. We use business-defined workflows and automate snapshot, clone and replication technologies to help you achieve industry-best data protection capabilities.

Eliminate backup windows and reduce recovery point objectives (RPOs) by over 95% and recovery time objectives (RTOs) from days to minutes with DPaaS.

A Comprehensive Framework for Backup, Recovery and Long-Term Retention

DPaaS is based on a cloud-enabled framework that delivers data copy, recovery, retention and disaster recovery services. The offering includes three core capabilities for data life-cycle management and provides a predefined architecture for Tier 1 and cloud storage, including private and hybrid cloud architectures.

Choose from a collection of services, based on service level agreements (SLAs) and consumption, which can be fully or partially managed both on and off premises.

Three Core Capabilities Provide a Robust Foundation

The recovery copy capability lets you define a service catalog based on RPOs, RTOs, backup and restore success rate, retention and backup copies with four service-class options. Long-term retention lets you extend the recovery copy capability to support your regulatory requirements for unstructured data. Use disaster recovery, to define a service catalog that safeguards data from human or natural disasters and protects against site failure or catastrophic loss of service.

Choose from these core capabilities and define a service catalog based on your unique business requirements.

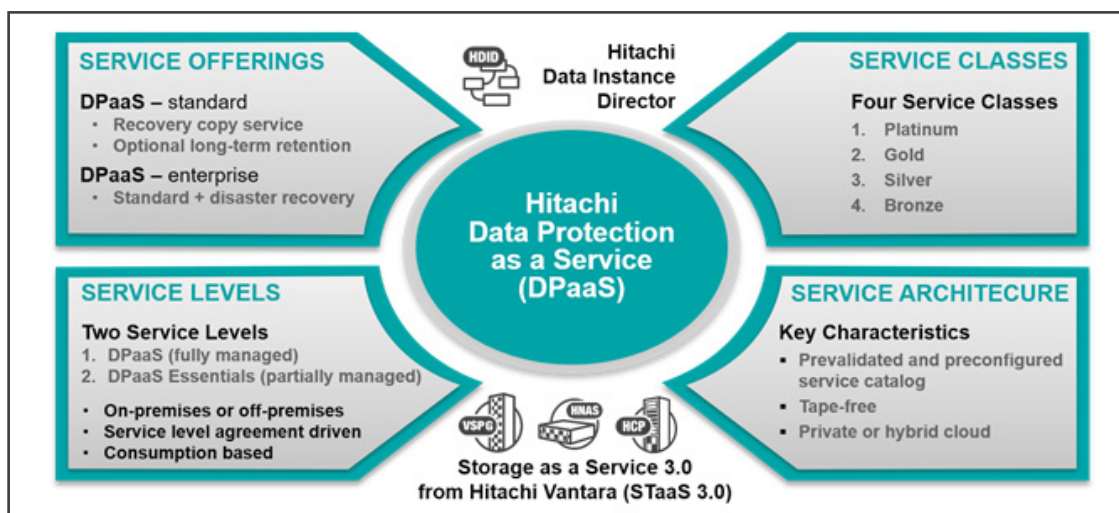


Figure 1. Data Protection as a Service offers three core capabilities with a range of service levels and delivery models.

Flexible Delivery Models With DPaaS and DPaaS Essentials

DPaaS, powered by Hitachi Data Instance Director (HDID), is built on Hitachi Vantara's market-leading technologies. We offer DPaaS as a fully managed service with turnkey SLAs, and DPaaS Essentials as a partially managed service with simplified service level objectives, including service monitoring and usage metering.

Our flexible sales models help ease adoption and accelerate your transition to a cloud-enabled data protection solution.

Recovery Copy and Long-Term Retention

You can define RPO service levels that range from one to four hours for mission-critical data, 12 to 24 hours for standard data, and RTO service levels from two to 24 hours for storage and host-based data.

Choose the RPO and RTO service levels and backup method best aligned to your specific business requirements.

Backup and Restore Success Rates

With DPaaS, organizations realize backup success rates of 99.5% for mission-critical and critical data and 98% for important and standard data. The restore success rate is 99% for all data.

DPaaS provides exemplary success rates for all data backup and restore services.

Backup Retention Time

DPaaS offers backup retention times from 30 days for local backup for mission-critical data to seven days for standard data. Long-term retention ranges from infinite for mission-critical data to six months for standard data.

Get the flexibility you need for granular definition of backup and long-term retention service levels.

Disaster Recovery Capability

Disaster recovery protection delivers RPOs and RTOs ranging from immediate for mission-critical data to up to 24 hours for standard data. Disaster recovery testing timeframes span from quarterly for mission-critical data to annually for standard data.

Gain peace of mind and ensure your data is safe from natural or human-caused disasters.

Flexible Failover Technology

Automated, multitarget, active-active failover is available for mission-critical data, while semi-automated and manual failover is offered for less critical data. The service leverages global-active device, Hitachi Thin Image (HTI), Hitachi TrueCopy, Hitachi Universal Replicator (HUR) or file/block replication technologies.

Increase resource availability and prevent the loss of valuable time and data if a server fails.

Remote Synchronous and Asynchronous Replication for Disaster Recovery

Disaster recovery as a service is commonly used for cloud storage, but not for highly critical data. TrueCopy and HUR, automated with HDID in a common workflow, protect critical data.

HDID and Hitachi Virtual Storage Platform (VSP) storage replication provide a modern disaster recovery solution for your critical data.

Leverage Hitachi Data Instance Director

HDID enables service providers to define classes of service, ranging from platinum and gold for highly critical data to silver for important data and bronze for less important data.

Lower costs while meeting your business requirements for data availability, resiliency and recovery.

Why Partner With Hitachi Vantara?


When you partner with us, you benefit from:

- Hitachi expertise: nearly 30 years of technical leadership.
- Operational excellence in delivering on SLA-based business outcomes.
- Commercial flexibility that aligns to changing business environments.
- Joining a winning team. Hitachi serves over one-fourth of the Fortune Global 100.

Take the Next Step

At Hitachi Vantara, we are with you every step of the way. We're focused on providing the solutions and support that your organization needs to achieve digital transformation goals and spend more time and energy growing your business. Take the next step today, and learn how Data Protection as a Service can reduce or eliminate:

- Tier 1 storage needs by 40% via automated tiering and archiving.
- Backup storage by 90%.
- Risk of new data loss by 95%.
- Administrative costs.
- Downtime during backup and recovery procedures.



Our global experts are ready to help you navigate digital transformation by implementing a modern, business-defined approach to data protection. To learn more about our Data Protection as a Service portfolio, visit HitachiVantara.com.



Hitachi Vantara at a Glance

Your data is the key to new revenue, better customer experiences and lower costs. With technology and expertise, Hitachi Vantara drives data to meaningful outcomes.

Hitachi Vantara



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