Hitachi Modern Data Protection and Copy Data Management Solutions

Transform Critical Application Availability and Resiliency

Traditional backup and recovery solutions cannot keep up with today’s business-critical requirements. Modern data protection and copy data management software from Hitachi Vantara can radically improve data availability, recoverability, resiliency and costs. This is accomplished through a range of tightly integrated technologies that are automated and orchestrated to support high expectations for operational and disaster recovery, business continuity and data repurposing.
Business-critical applications cannot tolerate downtime in today’s hypercompetitive, always-on marketplace. Backup windows are not long enough to complete large backups. Recovery after a failure using traditional methods can also result in many hours or even days of downtime. Performing backup once per day can result in the need to recreate, or lose, up to 24 hours of new data, causing further disruption. Making copies of production data for secondary purposes, such as test and development operations, also impacts application availability. All this downtime can be eliminated with Hitachi’s copy data management solution family.

Reduce Administrative Complexity To Increase Staff Productivity

Hitachi Ops Center Protector is built on a powerful, policy-based workflow engine. With a unique whiteboard-like user interface, Ops Center Protector makes it fast and easy to meet business-defined application availability and resiliency requirements. In conjunction with Hitachi Vantara storage systems, Protector automates all replication management, eliminating the complexity of managing configuration files and custom scripts. It orchestrates the interactions between applications and storage copy services to ensure application consistency on recovery. And, it can combine operations across local and remote systems to deliver end-to-end protection against the full range of data loss threats, while also creating and controlling data copies for secondary business functions.

Eliminate the Downtime Caused by Backup and Recovery

The unique capabilities of Hitachi Ops Center Protector allowed us to efficiently and reliably protect data while enabling us to save money through reduction in energy, floor space and maintenance requirements.

Michael Harbman
IT Plant Support Services Manager
Calpine Corporation
Local Backup and Operational Recovery With Near-Zero Downtime
Hitachi Ops Center Protector harnesses a wide range of technologies and capabilities to effect operational recovery. Host-based capabilities include streaming backup of Oracle and VMware. Storage-based protection orchestrates application-consistent snapshots and clones.

Protection is achieved without impacting application availability and can be run far more frequently to reduce recovery point objectives (RPO) by more than 95%.

Ensure Business Continuity With Zero Data Loss
The remote replication technologies built into the Hitachi Virtual Storage Platform (VSP) family include global-active device active-active storage clustering, Hitachi TrueCopy synchronous and Hitachi Universal Replicator (HUR) asynchronous replication. They support flexible 2- and 3-data-center topologies.

Zero data loss can be assured, and with Ops Center Protector automation, business continuity and disaster recovery become part of an end-to-end, integrated modern data protection solution.

Support Data Discovery and Analytics With Copy Data
Back up unstructured data to Hitachi Content Platform or Amazon Simple Storage Service (S3) for long-term retention requirements. The data is stored in native format, making it available for discovery, analytics and other operations.

Combine on-premises, edge and cloud-based data to support FinTech, RegTech, 360-degree view and other functions.

Offer Backup and Disaster Recovery as a Service
Ops Center Protector has all the features necessary to use it as the basis for advanced backup- and disaster-recovery-as-a-service (BaaS and DRaaS) offerings, including multitenancy, granular role-based access controls and a complete RESTful API.

Easily integrate Protector into your cloud services portal to augment account management, reporting, billing and self-service restore.

Maintain Control of Who Can Access Copied Data
Role-based access controls restrict the tasks, views and resources that users can access. It is extremely granular, with 50 different things that can be enabled, and it can support hundreds of thousands of unique user profiles.

Users can only see and do the things defined by their role or group, with fully customizable dashboards.
Gain Control of Copy Data Governance
A large majority of enterprise storage capacity is dedicated to copies of data, including massive amounts of “dark data.” These copies include multiple redundant full backups, as well as copies for test and development, finance and more.

Automatically create, refresh and expire physical and virtual copies, with no disruption to applications. This reduces the bad behaviors that lead to uncontrolled copy generation.

Unique Whiteboard-Like Interface Makes It Easy
The Ops Center Protector user interface is web-based and includes a drag-and-drop functionality that makes it easy to design policies and dataflows for local and remote protection, as well as data repurposing. It also includes full reporting.

Processes that would take days to script in traditional solutions take only a few minutes with Protector. Updating policies and workflows is equally streamlined.

Recover Easily From Ransomware Attacks
Ops Center Protector works with advanced technologies built into Hitachi block and object storage systems that prevent backup data from being modified or deleted. When an attack happens, simply recover your backup and don’t pay the ransom.

Automate “write once, read many” (WORM) data creation and retention to ensure fast recovery from any malware attack.

Combine Short-Term Recovery With Long-Term Retention
Ops Center Protector also automates streaming backup of popular applications and file systems. The target for these long-term backup copies can be heterogeneous storage, private cloud object storage or public cloud.

Frequent snapshots and periodic backups can be part of the same policy-based workflow.

Let Hitachi Vantara Manage It All for You
Data Protection as a Service from Hitachi Vantara will completely manage your data protection and recovery operations, delivering service levels tailored to meet your needs, with an affordable monthly subscription.

Data protection operations can be costly, complex and time consuming. We can eliminate these headaches.

Get It Right the First Time With Hitachi Services
The Hitachi Vantara Global Services organization can assess your current situation. We work with you to plan, design and implement a solution configuration that meets your business requirements today and is flexible enough to meet the demands of the future.

We have helped thousands of organizations maximize the value and rock-solid reliability that is built into Hitachi solutions.
A Tightly Integrated Solution Set for Modern Data Protection

Traditional backup and recovery solutions cannot keep pace with the demands of critical applications. The Hitachi solution set for modern data protection and copy data management meets these challenges, offering dramatic improvements in application availability, recoverability, resiliency, risk avoidance and cost reductions.

Hitachi Ops Center Protector
Protector is the automation and orchestration software that simplifies the ability to achieve demanding service levels for operational recovery, business continuity, disaster recovery and data repurposing. Its powerful policy engine and whiteboard-like interface bring together a suite of host-based and automated storage-based copy technologies to achieve end-to-end protection in a single workflow.

Local Replication for Fast Protection and Restore
Hitachi Thin Image creates space-efficient, point-in-time snapshots of protected volumes, with no impact on production applications. Hitachi ShadowImage creates full copy clones of the protected volumes, also with no impact on production performance. Both local replication technologies are part of the Hitachi Storage Virtualization Operating System (SVOS) available in all Hitachi VSP systems, with Ops Center Protector providing automated pair management and application awareness.

Hitachi Remote Replication for Continuity and Disaster Recovery
The global-active device feature in SVOS provides active-active storage clustering across systems in different locations, with no need for failover or failback. Hitachi TrueCopy provides synchronous replication across two systems within 300km with zero data loss, and Hitachi Universal Replicator provides asynchronous replication across any distance with near zero data loss through a unique journaling capability. Ops Center Protector automates the setup and management of these technologies.

Hitachi Content Platform for Unstructured Data Management
Hitachi Content Platform (HCP) is a highly scalable object storage solution that enables IT organizations and cloud service providers to store, share, sync, protect, preserve, analyze and retrieve file data from a single system. Ops Center Protector backs up file system data to HCP in a native format.

Among the organizations surveyed by ESG, a combined 71% reported they can’t tolerate more than one hour of downtime before invoking a failover for business-critical applications.

Source: Enterprise Strategy Group, “Minimizing Downtime with Hitachi Vantara’s Modern Data Protection Solutions,” July 2018
Adopt Enterprise Copy Data Management To Support Your Digital Business

As market disruption is increasing across industries, most organizations need to become fully digital to remain relevant. But as you transform your information infrastructure, it is essential to also modernize your data protection infrastructure:

- Modernize data protection to radically improve data availability and resiliency.
- Dramatically reduce setup and management time, while improving recovery point and time objectives, and reducing costs.
- Enable automated copy data management as part of an end-to-end, policy-based workflow.
- Offer self-service data protection, recovery and copy services using comprehensive integration capabilities and granular role-based access support.

Data protection and copy data management are complicated. Use the right tools for each requirement but manage them all in one place. Hitachi Ops Center Protector automates local and remote replication for modern data protection, as well as host-based protection, where appropriate.

To learn more about modernizing your data protection infrastructure, please visit our website.

We Are Hitachi Vantara

We guide our customers from what’s now to what’s next by solving their digital challenges. Working alongside each customer, we apply our unmatched industrial and digital capabilities to their data and applications to benefit both business and society.