Small and medium-sized enterprises face many of the same data governance challenges as larger organizations. For many datasets, especially business-critical applications and large databases, the traditional backup methodology is plainly broken. Data is growing at an alarming rate. Line-of-business owners are demanding aggressive service level objectives. Budgets for IT infrastructure are flat or declining. Often, a full backup of a large database cannot be performed without preventing employee access to data, or worse, impacting the performance of the business. So, the choice must be made: Perform the backup and hurt productivity or, skip the backup and pray that nothing bad happens. Neither choice is acceptable. The situation is similar for critical applications, where there is no tolerance for downtime. Organizations want to improve data protection and disaster recovery performance, cut costs and mitigate risks with modern approaches. Hitachi Vantara meets these challenges with storage-based protection, automation and orchestration, with solutions for any size enterprise.
Realize the Potential of Modern, Storage-Based Protection

Large enterprises have been moving toward a more modern approach to solving this problem, using the snapshot and replication technologies embedded in their enterprise-class storage systems. These capabilities, however, have not been available or affordable in the midrange storage systems used by small and medium-sized enterprises … until now!

Storage-based snapshot and replication are the future of data protection.

Eliminate the Downtime From Backup and Disaster Recovery With Hitachi Storage and Software

Snapshots and replication are used to augment or replace legacy data protection solutions that have been overwhelmed by the issues noted above. Native storage system snapshot and replication tools, as well as alternative third-party solutions, offer varying degrees of functionality, automation, scripting requirements and application awareness. The setup and maintenance of these tools can be very complicated and require expensive professional services.

High-performance local and remote copy technologies are available in Hitachi Virtual Storage Platform (VSP) midrange storage systems, such as the VSP F350 and VSP F370 systems. Full automation and application-aware orchestration are provided by Hitachi Ops Center Protector. By combining snapshots, clones, remote clustering and replication in a single, policy-based workflow, Ops Center Protector supports a wide range of data protection and repurposing needs.

Learn more about Hitachi Ops Center Protector.
Modern Data Protection Provides Many Benefits Over Traditional Approaches

Eliminate the Daily Pain of Backup Windows
Are you spending hours each night and more on weekends trying to protect your critical application data? Is backup impacting application performance and availability? Modern approaches such as storage-assisted snapshots provide space-efficient point-in-time backup copies with zero impact on productivity.

Eliminate downtime and performance problems caused by backup and save money on backup storage.

Ensure Business Continuity During a Major Disaster
When disaster strikes, keep your operations running in another location with always-on, active-active storage clustering and long-distance storage replication. Add business continuity and disaster recovery capabilities as part of a policy-based workflow that also protects critical data locally.

Keep the lights on when the power goes off. Don’t give customers a reason to look elsewhere.

- Use application-consistent snapshots to create fast, frequent data copies for operational recovery and data repurposing.
- Protect applications such as Oracle and VMware with near-zero recovery point and time objectives (RPO and RTO).
- Leverage high-performance remote replication to ensure business continuity and disaster recovery.
- Automate and orchestrate it all with Hitachi Ops Center Protector.

Improve Recovery Point Objectives by 95% or More
Traditional nightly backups support an RPO of 24 hours, leaving up to 24 hours of new data at risk. This is not acceptable for today’s critical applications. The RPO for critical data should be one hour or less.

Gain the flexibility to meet the recovery point objective that each data set requires.

Reduce Recovery Times From Days to Minutes
With the old way, you need to restore the last full backup and then each of the incremental backups. This manual, error-prone process can take many hours or even days. In contrast, mounting or reverting a snapshot happens almost instantly.

Recover quickly from data loss events and eliminate the transactional and reputational costs of extended downtime.

Gain Control and Governance of Data Copies
Many functions within an organization need data copies to do their jobs. But nobody knows where the copies are, who owns them, or what they are being used for. Hitachi can help automate the creation, refresh and expiration of copy data.

Reduce the number of copies and thereby reduce risks and costs.

Automate and Orchestrate End-to-End Copy Data Management
Everything in IT continues to become more complex, increasing costs and risks. Hitachi’s modern data protection and copy data management solution easily automates and orchestrates policy-based workflows that meet critical data availability requirements, using the right technology for each job.

Simplify administration of data protection processes. Enhance data availability and recoverability. Sleep better at night.
Protect a Wide Range of Data and Application Environments
Hitachi Ops Center Protector can orchestrate the protection of any data residing on Hitachi VSP family systems. It can also provide enhanced protection for other data using host-based approaches.

Use Protector to augment existing data protection software, or to replace multiple point solutions.

Offer Backup as a Service to Your Customers
Ops Center Protector is a perfect platform for offering copy data services. It includes multitenancy, granular role-based access controls, custom dashboards, and a robust application programming interface (API) to easily integrate into cloud and service provider portals.

Turn your storage and data protection investments into a profit center.

Modernize data protection to avoid disaster.

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.

Dramatically Improve Data Availability and Resiliency With Modern Data Protection

Modernizing your data protection infrastructure, processes and policies can result in dramatic cost savings and service-level improvements over the nightly and weekend backups associated with historical approaches. As a unified copy data management platform, Hitachi Ops Center Protector includes a highly advanced, easy-to-use whiteboarding approach to creating policies for continuous or live backup. It enables storage-based replication and application-aware snapshot management and sets variable RPOs from the single copy data stream.

- Eliminate the backup window.
- Improve RPO and RTO by 95% or more.
- Reduce backup storage capacity requirements by more than 70%.
- Deliver cloud-like data management services to your customers and business units.
- Reduce data protection administration costs by at least 50%.
Next Steps

The capabilities outlined above may seem like they belong in high-end, enterprise-class data centers. In fact, they are used by many very large enterprises, worldwide. They are also now available, with full functionality, in midrange form factors at midrange pricing. To learn more, please contact your local Hitachi Vantara sales representative or reseller.

Learn more about the benefits of application-consistent snapshots.

Backup and recovery processes can introduce downtime into your production environment. Review these hidden costs and how to mitigate them.

Read, our solution profile to learn how to provide local and remote replication to improve data availability, mitigate risks and reduce costs.

Learn how Hitachi’s solutions for modern data protection and copy data management can radically improve your data availability.

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.