

Cost-Optimize Your Disaster Recovery Plan

Hitachi Vantara Helps Protect
Your Business for Less



SOLUTION PROFILE

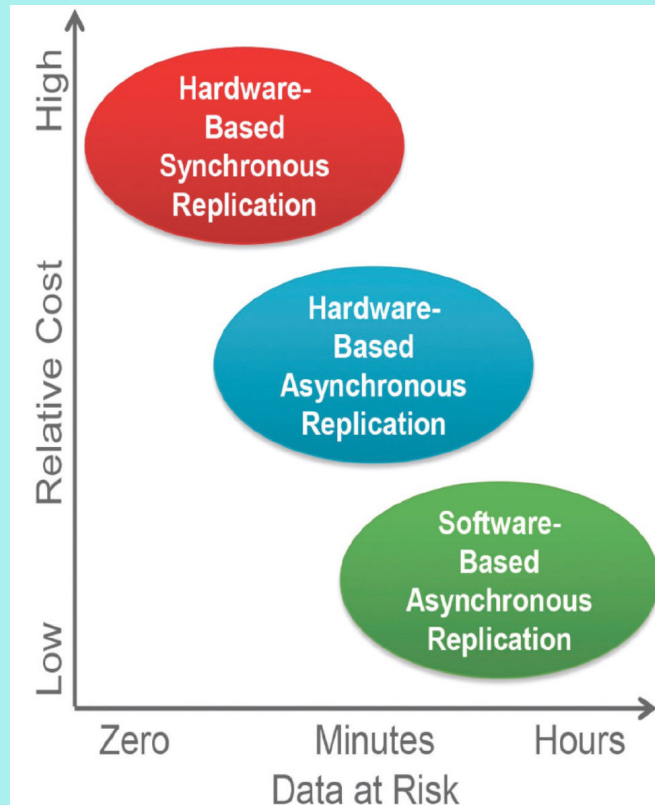
Keeping your company operating nonstop takes more than planning for disaster recovery: It's about building a resilient enterprise. From local backup to long-distance replication, you can be overwhelmed with options for establishing a practical methodology that expedites recovery while minimizing costs.

Every data protection process, including disaster recovery, is little more than an insurance policy for your business. Like fire insurance, data protection insurance provides you with peace of mind, but it does nothing for the bottom line unless something bad happens. After all, paying more for insurance, or buying too much insurance, is neither smart for you personally nor smart for your organization.



Replication Technology Is Not Enough

The most common approach to disaster recovery is replication technology. By itself, replication does not provide complete protection. For example, it provides neither application-consistent recovery without the addition of application-aware quiescing, nor the ability to restore previous versions of data. If you delete a file on the source system, it is deleted from the replica. However, replication is important for overall data protection, business continuity and disaster recovery strategies.



There are different types of replication technology, each with its own performance-versus-cost profile. For example, when zero data loss is required, synchronous replication is the best choice.

Eliminate High Costs With Hitachi Vantara Solutions That Modernize Disaster Recovery and Business Continuity

Organizations that are sensitive to the ballooning costs of data storage and data governance are naturally looking for innovative solutions to meet their growing needs without busting the budget. Hitachi Vantara is meeting this challenge with a selection of solutions that combine new approaches to storage hardware with advanced storage and data management software.

The strategy proposed by Hitachi Vantara is to use the technology that meets the needs of the individual workload, at the lowest possible cost, as part of a modern data protection and advanced copy management solution. You can reduce risks and costs with the right solution.

Automate Disaster Recovery for Greater Protection, Efficiency and Reduced Costs

Global-Active Device for Continuous, Simplified Operations

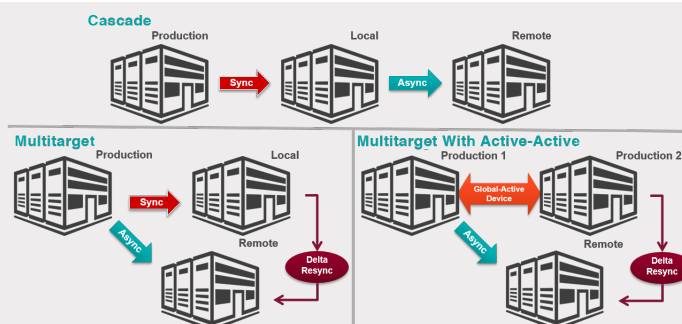
As part of Hitachi Storage Virtualization Operating System, global-active device provides continuous operations and availability for key applications, simplifies business resilience for SAN and NAS workloads, and can deliver zero recovery point and recovery time objectives (RPO and RTO).

Automatically resynchronizes without manual intervention to enable always-on operations.

Automate and Orchestrate Replication Operations To Reduce Complexity

Hitachi Data Instance Director (HDID) software performs replication setup and orchestration, eliminating the need for complex scripting and configuration management. As the environment changes, HDID automatically adjusts. HDID ties together a broad range of capabilities, further reducing administrative complexity.

Simplifies management of complex replication configurations, making it easy to consume advanced storage services.



- Continuous and nondisruptive replication for zero data loss across metropolitan distances.
- Lower-cost replication across storage platforms at any distance.
- All-in-one, easy-to-create workflows that reduce costs and recovery times.
- Continuous data availability in a distributed environment with a single, unified platform.

Synchronous Replication for Zero Data Loss

Hitachi TrueCopy is remote replication software that offers synchronous operations for continuous and nondisruptive replications. This host-independent data replication provides a recovery process across metropolitan distances that can restore business operations within minutes of a primary site outage.

Provides fastest recovery and zero data loss.

Asynchronous Replication for Lower-Cost Replication at a Distance

Hitachi Universal Replicator software offers storage system-based replication that replicates data to one or more remote sites, moving it from source to destination as bandwidth allows. Universal Replicator simplifies implementation to meet disaster recovery requirements.

Reduces resource consumption and replicates data between storage systems for great protection at any distance.

Combine Business Continuity With Copy Data Management

HDID provides the ability to build end-to-end copy operations in a single, automated policy-based workflow. Perform local backup, replicate for business continuity and disaster recovery, and create application-consistent virtual and physical copies for secondary uses, in any location.

Eliminates the need for many point solutions to support service-level objectives for critical data.

Rely on Experts To Choose the Right Options

Hitachi Vantara Global Services can help design an end-to-end data protection and disaster recovery solution specifically for your business needs, selecting the most cost-effective approaches to each requirement. They can then implement and tune the solution to further optimize the investment.

Design and implement an operationally effective, cost-efficient solution with fast time to value.

Key Considerations for a Disaster Recovery Solution

- What amount of new data is at risk (recovery point objective of zero, seconds, minutes or days)?
- How much time is required to fail over or recover from a disaster?
- What are the costs of storage hardware at the disaster recovery site, software licenses and network links?
- What is the distance between the primary and disaster recovery sites? Is the disaster recovery site far enough away to be outside any disaster zone?
- Does it add to administrative complexity?



Let Hitachi Help You Modernize the Protection of Oracle Databases

Certain applications require zero downtime and zero data loss to meet business objectives and regulatory requirements. These applications, which are often run in Oracle Database environments, demand the levels of protection that storage-based snapshots and remote replication provide.

Hitachi Data Instance Director automates and orchestrates application-consistent, storage-based snapshots and clones for Oracle 11g and 12c hosted on IBM® AIX®, Microsoft Windows (block only), Oracle Solaris (x86 and SPARC) and Oracle Enterprise Linux, RedHat Enterprise Linux and SUSE Linux. HDID also enables point-in-time recovery as well as recovery to a transaction number.

The Oracle databases to be protected may include Real Application Clusters (RAC), Automatic Storage Management (ASM) multicontainer databases (Oracle 12g), and flexASM (Oracle 12g).

Hitachi Vantara also offers flexible professionally managed data-protection-as-a-service (DPaaS) offerings that replace the up-front capital costs of an enterprise-class solution with monthly pay-as-you-go operational expenses.

Next Steps

Assuring business continuity and disaster recovery capabilities that meet business-defined service level requirements may seem to be a choice between busting the budget or not meeting objectives. But the value of diverse types of data varies. Hitachi Vantara stands ready to show you how to deploy the right technologies, at the right price, to maximize data availability and minimize costs.



Learn how Hitachi's three-data-center strategies can enable high availability with zero data loss and disaster recovery in a distant location.

See why modern replication and management capabilities are equally needed by small and medium-sized enterprises.

Discover new ways to simplify data protection, retention and recovery.

Read the ESG report on eliminating downtime with Hitachi Vantara.

Learn more by downloading Hitachi's Modern Data Protection and Copy Data Management overview brochure.



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.

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