When developing plans to achieve everyday uptime improvement and rapid recovery in the event of an outage, Hitachi offers 2 distinct software solutions: Hitachi TrueCopy synchronous replication software and Hitachi TrueCopy Extended Distance asynchronous replication software.

Hitachi TrueCopy Remote Replication Software for Hitachi Midrange Storage

Protect Data Assets, Simplify Data Recovery, Speed Business Recovery

Given today’s competitive business climate, every minute counts. Clients expect speedy service. These expectations, in turn, create the need for companies of all sizes to provide quick responses and fast deliveries in order to maximize opportunities.

As a result, in the event of an outage, organizations must have the ability to quickly move operations to or restore operational data from a secondary safe site. The secondary site may be within the same metropolitan area, or it could be located thousands of miles away. In either case, rapid operational recovery time is crucial.

However, traditional data recovery processes are labor-intensive and can take up to a few days to achieve. This is especially evident if the organization uses tape-based recovery, for example. To address these challenges, Hitachi Data Systems provides storage system-based data replication software solutions that simplify data recovery and speed business recovery.

Hitachi remote replication software products are key components of the overarching Hitachi Data Systems business continuity solutions portfolio, which provides proven application and host independent data replication. Copies generated can be used for remote backup, rapid disaster recovery, data warehousing and mining, or data migration. Fully leverage Hitachi midrange storage system investments by running data protection services within the system.

TrueCopy Synchronous Replication Delivers Immediate Data Protection

For the most mission-critical data situations, replication urgency and backup certainty of already saved data are of the utmost importance. Hitachi TrueCopy synchronous replication software for Hitachi midrange storage addresses these challenges with immediate and robust replication capabilities. This software is built with the same engineering expertise used to develop Hitachi remote replication software for enterprise-level storage environments. It can be used with Hitachi ShadowImage Replication or Hitachi Copy-on-Write Snapshot software to enable expanded business continuity capabilities. With TrueCopy synchronous replication, the system receives confirmation that data has been delivered to the remote storage system before host I/Os are completed. This approach allows it to achieve the highest level of replication integrity as compared to asynchronous replication.

TrueCopy synchronous remote replication software simplifies the data replication and recovery process. It enables normal business operations to resume in minutes rather than hours or days following a primary site outage. TrueCopy software provides host-independent data replication for any type of data within application-acceptable tolerances for latency across metropolitan distances. Copies generated by Hitachi replication software products can be used for the rapid recovery of production systems or the restart of production on disaster recovery systems following an outage. They can also be used for data warehousing, data mining or data migration applications.

TrueCopy supports up to 300km (186 miles) for synchronous replication. However, the customer’s application tolerance for latency associated with distance is a consideration the customer must evaluate.
TrueCopy Extended Distance Delivers Long-Distance Replication

When fast performance and geographical distance capabilities matter more, TrueCopy Extended Distance asynchronous replication software for Hitachi midrange storage provides bidirectional, long-distance, remote data protection. TrueCopy Extended Distance supports data copy, failover and failback. It maximizes bandwidth utilization and reduces cost by providing incremental write-consistent changes. TrueCopy Extended Distance software enables simple, easy-to-manage business continuity that is independent from complexities of host-based operating systems and applications.

Business Benefits

Ensure Business Continuity and Disaster Recovery

- Provides distance replication while maintaining application and data integrity.
- Enables integrated and centralized host-independent data replication for a wide range of operating environments, including virtualization.
- Improves business resilience by enabling disaster recovery testing with online data.
- Minimizes operational disruption of planned maintenance or outage events.

- Allows point-in-time operation recovery choice as multiple generations of disk-based point-in-time copies are created.

Improve Productivity for Both Business and IT Processes

- Enables improved service levels and quick recovery during unplanned downtime.
- Optimizes resource utilization by offloading processing and data to alternate systems.
- Enables normal backup operations on a copy of up-to-date production data while critical applications run unaffected.
- Simplifies site maintenance and application development by replicating write-consistent data to a local or remote site.
- Maximizes the storage infrastructure and data protection of the Hitachi Unified Storage family.

Complementary Software

The following software modules complement the capabilities of Hitachi TrueCopy remote replication software:

- Hitachi ShadowImage Replication software.
- Hitachi Copy-on-Write Snapshot software.
- Hitachi Replication Manager software.

FEATURE HIGHLIGHTS

Deployed together, Hitachi ShadowImage and/or Hitachi Copy-on-Write Snapshot replication software and Hitachi TrueCopy synchronous remote replication software yield the highest degree of data integrity. They ensure that real-time copies are the same as the originals, with minimal performance impact on the primary system. For longer distances, Hitachi Data Systems recommends deploying Hitachi TrueCopy Extended Distance asynchronous remote replication software.

Services

It takes a collaborative, hands-on approach to assist with the project planning, installation and configuration of replication software across an enterprise storage environment. From remote copy planning to advanced implementation services, Hitachi Data Systems Global Solution Services can support the successful and timely deployment of the most resilient data protection infrastructures. Services to support TrueCopy software and other business continuity and disaster recovery solutions from Hitachi Data Systems are available for both open systems and mainframe environments.

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