

Hitachi TrueCopy® Synchronous Remote Replication Software for Hitachi Enterprise Storage

For everyday uptime improvement and rapid recovery in the event of an outage, Hitachi TrueCopy® Synchronous remote replication software for the Hitachi Virtual Storage Platform, Universal Storage Platform® V and Universal Storage Platform VM duplicates data from one Hitachi storage system to another, across any distance.

Replicate Any Type of Data Across Any Distance

In today's extremely competitive business climate, organizations in all industries and of all sizes increasingly require the ability to move data to a secondary (disaster recovery) site that can take over critical application processing if the primary site is compromised. Although quick recovery time is crucial, traditional data recovery processes are often labor and capital intensive, and can take days.

TrueCopy Synchronous remote replication software automates the recovery process and enables normal business operations to resume in minutes rather than hours or days following an outage at the primary site. TrueCopy software provides host independent data replication for the Hitachi Virtual Storage Platform (VSP), Universal Storage Platform® V (USP V) and VM (USP VM), including heterogeneous replication capabilities for any type of data across any distance, without affecting application performance. 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.

Hitachi TrueCopy Synchronous can be integrated with Hitachi ShadowImage® Heterogeneous Replication software to enable robust business continuity solutions. In addition, TrueCopy Synchronous software can be deployed with Hitachi Universal Replicator software's asynchronous replication capabilities to provide advanced data replication among multiple data centers.

Business Benefits

Ensure Business Continuity/Disaster Recovery

- Reduces recovery time dramatically by replacing slow and expensive tape-based restores with continuously available online copies
- Improves business resilience by enabling frequent, nondisruptive disaster recovery testing with an online copy of current and accurate production data

- Provides centralized, automated and host independent data mirroring for mainframe, UNIX and Microsoft® Windows® environments over any distance
- Reduces the frequency and duration of planned outage events, such as system maintenance and data backups
- Enables multiple, nondisruptive point-in-time copies up to the point of an outage
- Facilitates compliance with government mandates and regulations governing wide area disaster tolerance

Improve Productivity for Both Business and IT Processes

- Improves productivity and flexibility by providing replication between any two storage systems, including third party storage, via the virtualized storage pools managed by all models of the VSP, USP V and USP VM
- Improves service levels by reducing planned an unplanned downtime of customer facing applications

- Optimizes resource utilization by offloading processing and data to alternate systems that can be located anywhere
- Enables backups to be performed on a secondary system while business operates at full capacity on a primary system
- Simplifies site maintenance and application development by replicating up-to-date data to a local or remote site without affecting production applications

Replication Software for Universal Storage Platform Models

TrueCopy Synchronous software can provide the highest levels of data integrity for local or metropolitan areas between:

- Any two Virtual Storage Platform or Universal Storage Platform models (Please check with Hitachi Data Systems for restrictions on certain platforms.)
- Any two storage systems attached externally to one of the Universal Storage Platform models or Virtual Storage Platform

At the same time, Universal Replicator software can facilitate asynchronous replication. Designed to significantly reduce resource consumption, Universal Replicator software sets a new standard for data protection. (See also <http://www.hds.com/solutions/storage-strategies/business-continuity/>)

FEATURE HIGHLIGHTS

ShadowImage Heterogeneous Replication and TrueCopy Synchronous remote replication software yield the highest degree of data integrity, because real time copies are the same as the originals, with minimal performance impact on the primary system. For multi-data center disaster recovery strategies, Hitachi Data Systems recommends deploying asynchronous replication capability with Universal Replicator software.

TrueCopy Synchronous also supports four data center configurations in a multi-data center implementation. This solution supports both open and mainframe environments; it enables implementation of two sites within short distance using Hitachi TrueCopy Synchronous and two long distance sites using Universal Replicator asynchronous with its unique journal technology.

Complementary Software

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

- Hitachi Business Continuity Manager software
- Hitachi Universal Replicator software
- Hitachi ShadowImage Heterogeneous 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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