

Hitachi Universal Replicator satisfies the most demanding business continuity and disaster recovery requirements. This software asynchronously replicates data between Hitachi storage systems, over any distance.

TRANSFORM VIRTUALIZATION ECONOMICS RELIABLE TRUSTED INNOVATE INFORMATION
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Hitachi Universal Replicator Remote Replication Software for Hitachi Enterprise Storage

Enhance Data Protection, Speed Data Restoration and Simplify Disaster Recovery

In today's competitive market climate, where downtime costs can run as high as US\$1 million per hour or more, reliable data storage and recovery systems are essential. Businesses also face the challenge of managing vast and increasing amounts of data, across a variety of data storage systems and operating environments, and in various locations. At the same time, they must optimize the use of storage hardware resources and minimize the management burden.

To address these needs, Hitachi Universal Replicator software provides enterprise-class performance associated with storage-system-based replication while delivering resilient business continuity. Universal Replicator provides a powerful data management and recovery solution that replicates mission-critical data to 1 or more remote sites.

Universal Replicator significantly reduces resource consumption and sets a new standard for data protection. This replication solution asynchronously replicates data hosted on Hitachi storage, including Virtual Storage Platform, Universal

Storage Platform V, Universal Storage Platform VM, Unified Storage VM and the Virtual Storage Platform G1000 family. It replicates, over any distance, for business continuity or improved IT operations. And it requires neither redundant servers nor replication appliances.

Universal Replicator redefined the way that asynchronous replication was performed with its unique journaling approach and continues to help organizations to:

- Lower the cache and resource consumption on production storage systems.
- Improve bandwidth utilization.
- Simplify bandwidth planning.
- Mitigate the impact of network fluctuations and failures.
- Gain flexibility in trading off between business continuity objectives and cost.
- Implement advanced multiple data center support more easily.
- Easily move data among levels of tiered storage systems.

Business Benefits

Ensure Business Continuity

- Simplifies implementation to meet the most demanding disaster recovery and uptime requirements, regardless of the type of supported storage platform hosting the business-critical data.

- Supports availability of up-to-date copies of data in dispersed locations by leveraging Hitachi TrueCopy synchronous replication in multi-data-center environments.
- Maintains integrity of a replicated copy, minimizing impact to production processing, even when replication network outages occur or optimal bandwidth is not available.
- Enhances administrative productivity as well as crisis aversion and response.

COMPLEMENTARY AND OPTIONAL SOFTWARE

- Hitachi Thin Image snapshot software.
- Hitachi TrueCopy replication software.
- Hitachi ShadowImage Replication software.
- Hitachi Replication Manager software.

Optimize Resource Usage

- Leverages advanced technology to maintain data integrity and optimize the storage or IT infrastructure; protects data from any application across a variety of hardware and software platforms.
- Optimizes storage resources for more efficient data protection over any distance.
- Significantly reduces cache use and increases bandwidth utilization by leveraging performance-optimized disk-based journals.
- Reduces overhead and application impact at the production site by offloading more of the replication workload to the remote site.
- Centralizes operations for management resources and provides secure management of data-related operational risk.

Improve Efficiency and Resilience

- Reduces costs; requires only 1 product to provide asynchronous copy across all attached storage systems, including 4-data-center configurations.
- Simplifies consolidation, aggregation and mapping of data value to storage cost.
- Supports planned site outages.
- Keeps logging changes in the event of network problems between sites.

FEATURE HIGHLIGHTS

Heterogeneous Storage System Support

- Enables business continuity and disaster recovery in heterogeneous storage environments, providing maximum flexibility and enterprise-class support.
- Supports any storage connected to Hitachi Unified Storage VM, Hitachi Virtual Storage Platform or Virtual Storage Platform G1000 family.
- Permits data to be copied from any supported device to any other supported device, regardless of operating system or protocol differences.
- Ensures maximum flexibility for data distribution as well as increased storage utilization and failover options.

More Efficient Replication

- Uses asynchronous replication driven by the remote site to minimize impact on primary production systems.
- Takes advantage of both disk journaling and cache to optimize low RPO and provide high resiliency of the replication solution during network impairment or bandwidth shortages.
- Limits use of cache; leaves cache for production application usage, further restoring primary site storage to its intended role as a transaction processing resource, not a replication engine.
- Enables unmatched scalability and data integrity for consistency groups, which can span multiple storage systems for large, enterprise-class applications.
- Provides a choice of 3-data-center cascade or multi-data-center configurations for both open and mainframe disaster recovery environments.
- Enables advanced 4-data-center implementations. It supports 2 sites within a short distance using TrueCopy synchronous replication and 2 long-distance sites using Hitachi Universal Replicator asynchronous replication to support data-center relocation and migration use cases.

Contact your Hitachi Data Systems representative for detailed feature availability information.

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