

Hitachi Universal Replicator Software

Satisfying the most demanding disaster recovery and uptime requirements, this software intelligently replicates data among storage environments controlled by Hitachi Universal Storage Platform® V, Universal Storage Platform and Virtual Storage Platform.

Secure Data Replication in Heterogeneous Environments

In today's extremely 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. All while they must optimize the use of storage hardware resources and minimize the management burden.

To address these needs, Hitachi Universal Replicator software provides the enterprise-class performance associated with storage system-based replication while delivering

resilient business continuity. In the Hitachi Universal Storage Platform® V (USP V) and VM (USP VM), and Virtual Storage Platform (VSP), Universal Replicator software provides a powerful data management and recovery solution that replicates mission critical data to a variety of storage platforms at one or multiple remote sites.

Universal Replicator software significantly reduces resource consumption and sets a new standard for data protection. This replication engine asynchronously replicates data hosted on a USP V, USP VM and VSP, over any distance, for business continuity or improved IT operations. And it requires neither redundant servers nor replication appliances.

Universal Replicator software redefines the way that asynchronous replication is performed, helping organizations to:

- Significantly lower the cache and resource consumption on production and primary storage systems
- Improve bandwidth utilization
- Simplify bandwidth planning
- Mitigate the impact of network failures
- Gain more flexibility in trading off between recovery point objective and cost
- More easily implement advanced multiple data center support
- Easily move data among levels of tiered storage systems
- Fully leverage the USP V, USP VM and VSP and optimize the storage infrastructure

COMPLEMENTARY SOLUTIONS

Complementary solutions for Universal Replicator software include: Hitachi Replication Manager software; Hitachi TrueCopy® Synchronous software, which duplicates data between like Hitachi storage systems; Hitachi ShadowImage® Heterogeneous Replication software for nondisruptive, high speed data replication within any Hitachi storage system; and Hitachi Business Continuity Manager software for managing TrueCopy and ShadowImage solutions for IBM® z/OS® mainframe.

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 software
- Maintains integrity of a replicated copy without impacting processing, even when replication network outages occur or optimal bandwidth is not available
- Works with USP V, USP VM and VSP; controller-based replication technology greatly enhances administrative productivity and response to and proactive aversion of crises

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 production site by placing more of the workload on remote site
- Centralizes operations for management resources and provides secure management of data related operational risk

Improve Operational Efficiency and Resilience

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

FEATURE HIGHLIGHTS

Heterogeneous Storage System Support

- Enables storage management and disaster recovery in heterogeneous systems, providing maximum flexibility and support of enterprise-class environments
- Supports any storage connected to USP V, USP VM and VSP; 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 journaling rather than cache files to mitigate the high resource usage of other asynchronous approaches
- Keeps storage usage on the USP V, USP VM and VSP minimal, with just enough for the journals
- 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
- Provides a choice of cascade or multitarget configurations with advanced three data center capabilities; teams with TrueCopy Synchronous software for advanced configurations
- Enables unmatched scalability and data integrity for consistency groups, which can span multiple storage systems for large enterprise class applications
- Supports four data center configurations in a multi-data center implementation for both open and mainframe environments; enables implementation of two sites within short distance using TrueCopy Synchronous and two long distance sites using Hitachi Universal Replicator asynchronous, with its unique journal technology

Please check with your Hitachi Data Systems representative for detailed feature availability information.

Synergy with Hitachi Data Systems Business Continuity Framework

- Builds on the data integrity heritage of Hitachi open systems and mainframe remote replication software
- Provides unified, simplified management via Hitachi Device Manager and Hitachi Business Continuity Manager software for IBM® z/OS®

- Integrates tightly with other Hitachi software products supporting business continuity, further expanding capabilities

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