

Hitachi Continuous Data Replicator Software

Managing remote office data can be time consuming, inefficient and costly. IT administrators must look for cost-effective solutions that simplify administration and improve disaster recovery preparedness. Hitachi Continuous Data Replicator software is a host-based asynchronous replication solution that delivers near continuous data protection (near CDP).

Centralized Management of Remote Office Data

Hitachi Continuous Data Replicator software, a component of the Hitachi Data Protection Suite, powered by CommVault®, is designed to help centralize the management of remote office data and provide cost-effective disaster recovery. Continuous capture and replication of file changes at the byte level and scheduled throttling help maximize network efficiency. Unique application consistent snapshot technology protects the integrity of replicated data and ensures recoverability. By employing Continuous Data Replicator software, IT administrators can reap the following key benefits for their organizations:

- Reduced management costs through centralization of remote office data
 - Cost-effective disaster recovery for Microsoft® Exchange and SQL Server® environments
 - Fast, reliable recovery of remote office data
 - Maximized data protection and availability
- Key Capabilities Support Simplified Administration, Improved Disaster Recovery**
- **Easy, centralized management of operations** provides the industry's only graphical user interface (GUI) from which to easily create, track, administer and manage replication, along with backup, recovery and archiving.
 - **Unique Application Recovery Points** capture point-in-time images of replicated data and offer special application integration for Exchange and SQL Server data. This maintains application integrity and provides consistent recovery images at the destination host.
 - **Smart synchronization technology** enables rapid return to coherent replication following a network outage, without the overhead of hefty check-sum or other network intensive comparisons between the source and target.
 - **Online replica of entire SQL Server or Exchange Information Store database** improves recoverability by enabling administrators to copy back to any server within the environment.
 - **Integrated backup protection with Hitachi Data Protection Suite** uses a single policy to automate data movement from replication to snapshot to backup copy and preserves simple, one step restore capabilities.
 - **Point-and-click reporting** provides a central location where administrators can view or schedule color coded backup and replication reporting for easy management. The Creation Job Summary Report helps monitor the status, size and scheduling as well as start and end time of all replication jobs and replication sets. The Replication Pairs statistics provide detailed information about the replication set, including destination host, source, path, applications, state of replication job and start time.

- **Scheduled bandwidth throttling**
optimizes available network resources by allowing administrators to match replication needs to available bandwidth.

How It Works

Continuous Data Replicator software provides real time continuous capture of data written by a Microsoft Windows® server system onto an attached disk (internal or external). Any disk that is mountable by the server can be seen and protected with Continuous Data Replicator software, which duplicates the I/O stream as it writes to the disk, and then sends the data across the network to a second Windows server system.

Continuous Data Replication software is also deployed on the second Windows server to capture the replicated I/O stream and then apply that I/O stream to a duplicate copy of the data. In this way, a second copy of the production data is created and kept up to date. Application consistency is provided through the insertion of consistency markers in the replication log. These markers indicate that a recovery point snapshot can be created at the destination. Multiple point-in-time snapshots can be maintained for fast application recovery.

Complementary Services

Backup Assessment Services, complementary to Continuous Data Replicator software, enable alignment of an organization's backup environment with strategic business objectives, service level agreements and standard operating procedures. These services include:

KEY FEATURES AND BENEFITS

Features	Benefits
Centralized policy management, control and reporting	Simplify configuration and administration, manage global environment from web console
Application Recovery Points	Protect Microsoft Exchange and SQL Server applications against corruption or virus by leveraging space efficient, Hitachi Copy-on-Write Snapshot software's point-in-time snapshots
Smart synchronization	Expedite resync after incurring dropped link for easy restart
Hardware independent	Allow existing storage assets to be leveraged via recovery point snapshots, which are independent of storage hardware
Mountable snapshots	Enable read-only end user browse and restore of individual files
One-to-one/one-to-many/many-to-one local or remote configuration	Facilitate centralization of data, disaster recovery and rapid disaster recovery management
Out-of-band initial mirror creation	Eliminate need to replicate large initial datasets over the network
Bandwidth throttling	Schedule bandwidth throttling to match replication needs to bandwidth for effective use of existing network infrastructure
Compression	Reduce network traffic and expedite replication process
Encryption	Protect critical corporate data from exposure when replicating over unsecured network connections

- Backup Stabilization Service
- Backup Optimization Service

and supports most Windows server-based applications, including Exchange, SQL Server, and SharePoint®. Please see Release Notes for the specific versions and configurations supported.

System Requirements

Continuous Data Replicator software runs on the latest versions of Microsoft Windows

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