

Hitachi Protection Platform cuts costs and eliminates complexity in your data center. The platform's remote replication feature delivers a fast, cost-efficient way to replicate massive data volumes, allowing you to meet the disaster recovery requirements of your large enterprise with ease.

## Hitachi Protection Platform Remote Replication Feature Speeds Disaster Recovery for Large Enterprises

### Cost-Effectively Replicate Massive Data Volumes to Remote Sites for Disaster Recovery Protection

The remote replication feature of Hitachi Protection Platform reduces the cost and complexity of replication for large enterprises with massive data volumes and large databases operating with high change rates. Because remote replication leverages the power of the enterprise-optimized deduplication technology in Protection Platform, it only needs to send new data to the remote location. This approach cuts bandwidth requirements by as much as 97%. It saves time and money by eliminating the need to send entire 16 or 32K blocks of data, which is a common practice of other backup appliances. Intelligent scheduling and bandwidth throttling enhance replication performance. Further, the built-in accelerator hardware in Protection Platform compresses and prepares data payloads for transmission, freeing critical CPU resources for other tasks, such as deduplication and space reclamation.

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HPP

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### Intelligent Deduplication, Optimized Replication

The remote replication feature in Hitachi Protection Platform leverages instructions from the backup application to replicate data with excellent bandwidth efficiency, since only changed bytes are sent across the wire. Inline solutions must send the entire block, even if only one byte has changed within the block. The remote replication feature generates a non-deduplicated copy of the latest backup on the remote system and deduplicates the previous generations from one instruction file for fast restores at the remote site.

Hitachi Protection Platform's intelligent deduplication not only reduces disk usage, maximizes efficiency and lowers operational and capital expenditures, but also enables efficient data movement across the WAN to other sites and to the cloud. As data lands on a Protection Platform system, it can immediately begin replicating to a remote disaster recovery site. With Protection Platform, only unique data in compressed form is transferred across any WAN segment, requiring a fraction of the time, bandwidth and cost of traditional replication methods. This approach can reduce WAN bandwidth requirements by up to 99%, making it fast, reliable and cost effective.

### Multiprotocol Support

Protection Platform provides you with the flexibility to replicate backup images created by leading backup applications, including Veritas NetBackup OST, IBM® Tivoli® Storage Manager, HP Data Protector, EMC Networker and Commvault.

### Cost-Saving Enterprise-Wide Management

Hitachi Protection Platform was designed to protect petabytes of data in a single system, eliminating the administrative cost and complexity of dividing data volumes onto numerous independent backup systems. Its grid architecture enables scale-out of performance and capacity. The Protection Platform management console enables efficient, enterprise-wide management of your data protection environment (see Figure 1).

Key features include:

- Replication status view shows the percent completion of replication jobs (by bar code) through each phase of replication.
- Replication trend data shows up to 90 days of data on replication performance and efficiency for system optimization as well as detailed trend analysis and bandwidth planning.

- User-friendly reports put key data at your fingertips, including time of replication job transfer, time completed, percent completed and transfer status.
- Open data format lets you upload data into third-party reporting tools for further analysis.
- Replication configuration wizards make setup of the source data protection appliance and target appliance intuitive and simple.
- Windowing policies let you choose the data you want to replicate and set the time and replication frequency.

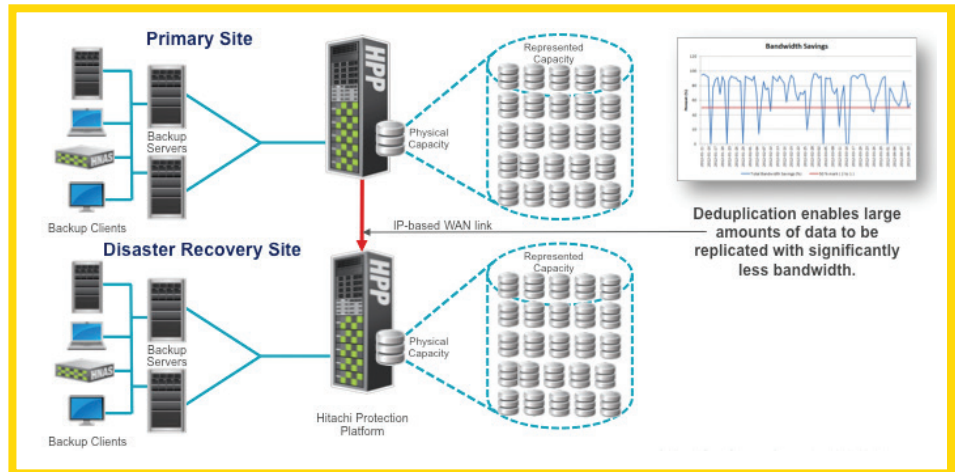


Figure 1. Hitachi Protection Platform enables powerful, lower-cost disaster recovery.

## Flexibility to Meet Your Needs

Typically, the remote replication feature is configured to replicate data from a main data center to a remote disaster recovery site. However, it may be deployed in a variety of other ways to match your enterprise replication requirements. For enterprises that maintain two data centers, remote replication software also supports bidirectional replication (source and target) as well as replication from multiple regional data centers to a primary data center in a many-to-one configuration. This powerful feature enables data managers to eliminate tape handling in remote sites, avoiding costs and eliminating potential data losses. Protection Platform lets you choose the data you want to replicate. You can also choose to replicate data with or without enabling deduplication.

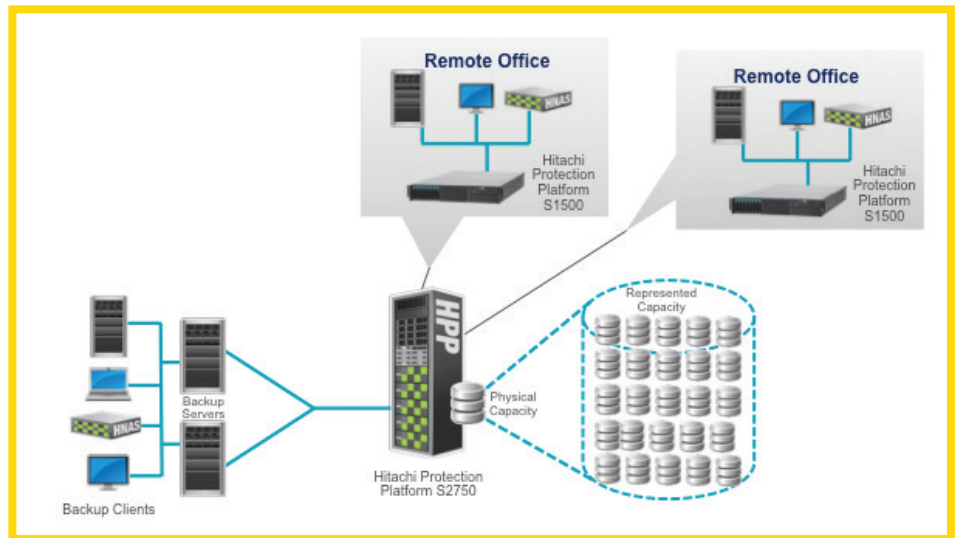


Figure 2. Hitachi Protection Platform enables easy remote office protection.

## Faster, More Realistic Disaster Recovery Testing

Unlike a tape-based system, which requires recalling tapes from archive, loading a tape library and restoring data linearly, the remote replication feature in Protection Platform enables continuous, online access to stored data (see Figure 2). Disaster recovery testing is faster and easier. Now you can reduce your risk of downtime and data loss by

testing more frequently and modeling more realistic disaster recovery scenarios.

## Next Steps

To learn more about how Hitachi can help you deliver powerful, scalable and cost-effective data protection for your large enterprise, contact your Hitachi Data Systems representative or visit [www.HDS.com/protection](http://www.HDS.com/protection).

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