

Cut costs and eliminate complexity in your data center with Hitachi Protection Platform. This backup appliance is designed to deliver powerful, scalable and cost-efficient data protection storage for large enterprises.

Hitachi Protection Platform

Powerful, Scalable Backup Appliance for Enterprise Data Protection

Hitachi Protection Platform is designed to address the challenges facing today's enterprise and government data centers: explosive data growth, budget constraints, costly data center complexity, and increasing risk.

Fast Performance

With faster performance than other disk-based solutions in the industry, Hitachi Protection Platform enables administrators to meet backup windows, service level agreements (SLAs) and recovery objectives with ease. Built for speed, Protection Platform delivers backup performance of up to 80TB per hour, regardless of data type, data change rate or capacity utilization. It performs deduplication outside of the primary data path, concurrently with the backup process, to store data safely at industry-leading rates. This process leverages the performance-driven, multinode processing power of Protection Platform to back up data at wire speed. With Protection Platform, enterprises can protect petabytes of data well within the most stringent backup windows.

HDS Data
Protection
Solutions

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Even Faster Restores

Within Protection Platform, unique delta-differencing deduplication technology maintains a full copy of the most recent backup and uses it as the baseline for deduplicating data in older backups against it. As a result, the most frequently used files are always available for immediate restores without the need for reassembly. This availability enables Protection Platform to restore data at industry-leading rates.

Pay-as-You-Grow Grid Scalability

Hitachi Protection Platform is able to scale deduplication processing across multiple processing nodes for fast, efficient capacity reclamation. The unique grid architecture enables it to scale performance and capacity independently, simply by adding processing nodes or disk shelves as needed. It lets you buy what you need today and add performance and capacity in convenient, cost-saving increments as your business grows.

- Deploy 1-8 processing nodes for industry-leading backup performance of up to 80TB per hour.
- Scale capacity by adding disk shelves from 36TB to 4PB usable capacity (before deduplication).
- Optimize physical storage capacity with 4TB drives and high-performance hardware compression.

- Automate and simplify data protection storage management for administration time savings.
- Put key information at administrators' fingertips with detailed, flexible reporting. Powerful dashboards enable a single administrator to manage and monitor petabytes of data.

Enterprise-Optimized Deduplication

The Protection Platform deduplication engine was designed to eliminate redundancy from massive data volumes without slowing backup and restore performance. It enables you to keep more data online longer for faster restores, more data accessibility, and the ability to meet challenging SLAs. This intelligent approach to data protection also saves significant labor cost by enabling administrators to manage more data in a single automated system. Unlike hash-based technologies, the unique Protection Platform deduplication approach does not slow backup and restore performance over time.

Global and Selective Deduplication

Protection Platform deduplication technology delivers one of the industry's only truly global deduplication solutions. A single Protection Platform system not only eliminates the need to store massive data volumes on multiple systems, but it also

performs deduplication across all nodes and disk shelves for maximum reduction. In addition, Protection Platform enables you to select the data you want to deduplicate by application, backup server or software. You can also tune deduplication by data type for optimal efficiency and compliance with your backup policies or simply turn off deduplication for data you know contains little redundancy or is not effectively deduplicated, such as encrypted data.

Reduce Space and Power Requirements

By storing more data in less space, Protection Platform significantly lowers disk-related backup costs and operating administration costs. It improves the overall reliability of your infrastructure by automating disk management and eliminating spinning disks, failed media, and many other common causes of failed backups.

Multiprotocol Support

Hitachi Protection Platform supports all leading backup applications, (that is, Symantec NetBackup, IBM® Tivoli® Storage Manager, EMC NetWorker, HP Data Protector) using both virtual tape library (VTL) tape emulation and/or Symantec NetBackup OST on 8Gb Fibre Channel and/or 1Gb and 10Gb Ethernet.

Protection Platform provides industry-leading NetBackup OST integration and supports OST features, including Auto Image Replication (A.I.R.), Optimized Synthetic Backups, Granular Recovery Technology, and NetBackup Accelerator.

Encryption of Data at Rest

Protection Platform also offers inline, high-speed AES 256 encryption and decryption of compressed data at rest without slowing performance as a licensed option. Protection

Platform integrates with encryption key managers (EKM) that are compliant with industry-standard Organization for the Advancement of Structured Information (OASIS) Key Management Interoperability Protocol (KMIP). This integration allows you to leverage interoperability across encryption and key management systems.

Auditable Data Destruction

The licensed data erasure option in Protection Platform delivers guaranteed, auditable erasure of data on virtual tape cartridges.

- Meets National Institute of Standards and Technology (NIST) 800-88 standard for data destruction.
- Automatically emails auditable proof of destruction for each cartridge.
- Saves media costs and enables a greener data center.

High-Reliability Design

Hitachi Data Systems is known throughout the storage industry as a leader in providing reliable storage. Protection Platform leverages Hitachi storage to provide a secure platform for backup data and adds a variety of high reliability features:

- RAID-6-based enterprise-class storage with hot-spare disks.
- Redundant control and data paths with dual-battery backup.
- Redundant power distribution units, network switches, lights-out management.
- Real-time 24/7 platform monitoring and diagnostics with automated alerts.
- 99.999% data availability.
- Dual redundant power supplies.
- Hot-plug N+1 redundant fans.
- Hot-plug RAID-1 mirrored system disks.
- Dual redundant hardware accelerators for compression and encryption.

Bandwidth-Optimized Remote Replication

Integrated IP-based remote replication software in Protection Platform delivers fast, secure and cost-effective replication of large data volumes over a WAN to remote disaster recovery sites. By transmitting only new data, network bandwidth requirements are greatly reduced. Protection Platform also features dual hardware accelerators that offload the compression and decompression of remote replication payloads. System resources are kept free to deliver high-performance backup performance and deduplication.

Makes Administration Easier

Protection Platform features a powerful management console that provides IT administrators with detailed information and reporting capabilities. It gives users a single interface for monitoring and managing backup, deduplication, replication and capacity utilization. The advanced system capacity view provides a variety of key metrics, including snapshots of usable disk capacity, disk space consumed and remaining capacity. When usage levels grow near to a preset level of capacity usage, the system automatically notifies administrators by email to add capacity.

Next Steps

Rely on Hitachi Protection Platform to cut costs and reduce complexity in your data center. To learn more, contact your Hitachi Data Systems representative or visit www.HDS.com/protection.

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