

## Hitachi Virtual Storage Platform

The Hitachi Virtual Storage Platform is the only 3D scaling storage platform designed for all data types. It is the only storage architecture that flexibly adapts for performance and capacity, and virtualizes multivendor storage. With the unique management capabilities of Hitachi Command Suite software, it transforms the data center.

### Transform the Data Center into the Information Center. Make IT More Agile.

Hitachi Data Systems delivers on our vision that IT is virtualized, automated, cloud-ready and sustainable to help organizations to transform their data centers. At the heart of our vision, we offer a virtualized platform for all data with the ability to manage multivendor environments.

The Hitachi Virtual Storage Platform is the only 3D scaling storage platform designed for all data types. It is the only storage architecture that flexibly scales for performance, capacity and the virtualization of multivendor storage to optimize return on storage assets. The mobility it gives to data reduces the business impact of adapting to change. A highly efficient design allows unsurpassed performance and capacity, and the lowest power and cooling requirements.

Hitachi Dynamic Tiering makes block, file and content data mobile across virtual storage tiers. The Hitachi Virtual Storage Platform, when combined with Hitachi Command Suite management software, transforms the data center and makes IT more agile.

3D scaling delivers a storage environment that is reliable, dynamic and open. It is highly reliable, with leading capabilities for data protection and high availability. It is dynamic, automating data placement and resource addition. It is also open, supporting a wide variety of operating systems, data types, and storage and server environments.

#### Business Benefits

##### Superior Data Center Efficiency, Manageability and Cost Savings

- Creates a more agile storage infrastructure
- Increases the productivity of IT staff
- Reduces storage costs
- Increases return on storage assets
- Supports scalable management for growing and complex storage environments using fewer resources
- Enables the move to a new storage platform with up to 80% less effort and cost compared to the industry average
- Increases performance and lowers operating cost with automated data placement

- Automatically matches business value of data to the cost of storage
- Extends to multivendor storage assets
- Consolidates management with end-to-end virtualization to prevent virtual server sprawl across virtualized storage and server environments
- Achieves up to 40% better power efficiency for more sustainable data centers
- Lowers operational risk and data loss exposure by optimizing growth of virtual storage with data resilience solutions
- Offers comprehensive services that optimize your new Virtual Storage Platform for rapid transition to a new environment

#### Feature Highlights

**3D scaling** allows for optimal infrastructure growth in all dimensions.

- *Scale up* to meet increasing demands by dynamically adding processors, connectivity and capacity in a single unit. This gives you optimal performance for open systems and mainframe environments.

- *Scale out* to meet demands by dynamically combining multiple units into a single logical system with shared resources. Support increased needs in virtualized server environments and ensure safe multi-tenancy and quality of service through partitioning of cache and ports.
- *Scale deep* to extend the advanced functions of Hitachi Virtual Storage Platform to multivendor storage through virtualization. Offload less-critical data to external tiers in order to optimize the availability of the tier one resources.

**3D management** is enabled by Hitachi Command Suite with efficient storage management that lowers costs and properly manages all data types.

- *Manage up* capabilities unify management and scale to the largest infrastructure deployments.
- *Manage out* features deliver a single management framework with the breadth to manage storage, servers and the IT infrastructure.
- *Manage deep* with Hitachi Virtual Storage Platform integration for the highest level of operational efficiency and up to 50% time savings for essential storage management tasks.

**Data mobility** functions give you the fastest way to move to new storage with host-transparent migration. Lower operational risks with advanced data replication topologies. Increase performance and lower cost with automated data placement.

**Unmatched efficiency** gives you the highest capacity available in the least space, and automates data placement for higher performance and lower cost. It also shares a single image global cache across all virtual storage directors for maximum performance, the lowest power consumption per capacity stored, and faster and simpler storage management.

## COMPLEMENTARY SOLUTIONS

- **Hitachi In-System Heterogeneous Replication software bundle** consists of Hitachi ShadowImage® Heterogeneous Replication and Hitachi Copy-on-Write Snapshot software. It is attractive to organizations with dynamic business requirements for full volume clones, point-in-time snapshots of data and rapid recovery of Microsoft Exchange and SQL Server applications.
- **Hitachi disaster recovery software** provides synchronous remote copy with Hitachi TrueCopy® Synchronous. Asynchronous remote copy over any distance comes with Hitachi Universal Replicator or a metrocluster solution for Hitachi NAS Platform.
- **Hitachi High Availability Manager software**, an industry leading, open systems, continuous availability solution, administers internal storage and externally attached heterogeneous storage with common and integrated management. It ensures 100% accessibility to business critical data assets.
- **Hitachi NAS Platform, powered by BlueArc**, offers enterprise-level, best-in-class performance and scalability, with up to eight-node clustering, single namespace, Intelligent File Tiering software and large 256TB volumes. It integrates with Hitachi Data Discovery Suite and Hitachi Content Platform for a comprehensive file and content solution.
- **Hitachi Content Platform** gives you object-based storage, active archiving, content depot, content-aware compression and de-duplication, and backup reduction.
- **Hitachi cloud storage infrastructure services and solutions** deliver integrated, elastic, virtualized and highly available environments.
- **Hitachi Unified Compute Platform** centrally manages and orchestrates a converged infrastructure of servers, storage and networks.

**Dynamic tiering** automates data placement for higher performance and lower cost. It manages internal and external data, including multivendor and mainframe data. Its pools optimize the right data in the right place at the right time with no performance degradation.

**Server virtualization** integration with leading virtual server platforms delivers end-to-end visibility from individual virtual machine to storage logical unit and protects large scale multivendor environments.

**Sustainable design** allows up to 40% better capacity per square foot and lower power consumption compared to the previous generation. It also supports greater utilization through Hitachi Dynamic Provisioning.

**Data resilience** is supported with unique data replication and protection across multiple data centers. It includes integrated protection frameworks that are hypervisor agnostic. It also offers application-aware replication management, enhanced encryption and advanced security management.

**Mainframe enhancements** enable virtual tiering and improve operational efficiency for all types of operating systems or data. They reduce operational risk with advanced data protection and up to 40% more utilization.

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