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OVERVIEW

## Hitachi Unified Storage 100 Family

### Unified Storage Without Compromise

As businesses strive to innovate and prosper, the need to solve complicated data management issues has never been greater. Organizations of all sizes are hampered by data growth demands, rising costs and complexities, and difficulties meeting service level agreements. While data capacity, applications and virtual server environments are growing at exponential rates, budgets are not. Data centers must become more efficient and simpler to adeptly meet these challenges.

And with the rampant rise in unstructured data storage requirements, traditionally separate file and block solutions are no longer adequate for meeting business cost-efficiency goals. Savvy IT leaders are looking to unified storage platforms as a way to infuse overburdened data centers with greater flexibility, investment protection and cost savings.

Look no further than Hitachi Unified Storage (HUS) 100 family.



Hitachi Unified Storage 100 family systems are the fastest midrange storage systems available today. With the best combination of random and sequential performance for both file and block data, HUS 100 family can help you achieve performance goals at the lowest possible price.

### Unified Storage: Redefined

Hitachi Data Systems introduces new unified midrange storage for all data, to help businesses satisfy their growth requirements without compromise. Hitachi Unified Storage 100 family systems are the only systems that can centrally consolidate file, block and object data (with Hitachi Content Platform), to redefine unified storage for the future.

Hitachi Unified Storage 100 family unifies all data types so you can achieve key business benefits, such as meeting service level objectives, in cost-effective ways. With best-in-class scalability, performance and availability, HUS 100 family optimizes support for critical applications, cloud-ready infrastructure and data center consolidations, all through a single intuitive interface.

Hitachi Unified Storage 100 family systems are not just file and block products. They deliver on the Hitachi Data Systems vision of an integrated portfolio of storage solutions, coordinated with intelligent and integrated management, to unify the storage environment, making it highly efficient and reliable.

HUS 100 family provides a balanced approach to scalability that extends investments further. Capacity of a single system can grow to nearly 3PB while performance can increase linearly and to industry-leading heights. Scale the capacity of data sets with megaLUNs up to 128TB and file systems up to 256TB. Take thousands of point-in-time snapshots for finer granularity of recovery. Remotely copy all data without limits.

HUS 100 family delivers the fastest midrange storage system available today. With the best combination of random and sequential performance for both file and block data, HUS 100 family can help you achieve performance goals at the lowest possible price. High-end

storage functionality, such as dynamic load balancing and auto-tiering make performance levels predictable even in rapidly changing workload environments. Each model can be configured to full capacity with solid state disks for maximum performance.

Now all file, block and object data can be provisioned, managed and archived throughout its lifecycle, consistently and efficiently. HUS 100 family promotes faster and easier provisioning of storage for both block and file requirements within virtualized environments, including VMware and Citrix, and provides application-aware data protection for both virtualized and nonvirtualized server environments.

Block storage is accomplished through high-performance, high-density dynamic virtual controllers that automate load balancing as well as tiering to deliver the utmost random and sequential performance with predictable results. HUS 100 family uses Hitachi Dynamic Provisioning to pool file and block storage with maximum flexibility that can drastically improve capacity utilization rates. File storage relies on a unique, hardware-accelerated, object-based file system using custom FPGAs, which support intelligent file tiering and migration, and virtual NAS functionality, without compromising performance or scalability.

Hitachi Unified Storage 100 family is an evolution in universally managing file, block and object data at the midrange level, without compromising performance, scalability or cost efficiency.

### HUS 100 Family: Highlights

#### Balanced Scalability

Harness data growth by scaling capacity to nearly 3PB, with up to 960 disks and 32 back-end paths per system, without

affecting performance. Dynamically grow pool sizes without concern for capacity headroom, with 128TB LUNs for block volumes and 256TB for file systems. Match server load balancing with storage load balancing. Easily provision block and file capacity for virtual machines.

#### Highest Data Availability

Reduce business risk by ensuring uninterrupted access to data wherever, whenever needed. HUS 100 family is built on legendary Hitachi reliability. Perform online microcode updates seamlessly, without the need for path failover and fallback. The dual controller design allows for I/O to automatically be rerouted, if one controller fails, to the port on the working controller, without taking down the port. Gain peace of mind with Hi-Track Remote Monitoring system's advanced system diagnostics, continuous monitoring and "call home" features for rapid repair.

#### Automated Storage Management

Reduce administrative costs and increase productivity with built-in automation that detects changing conditions and optimizes performance as changes occur, without manual intervention. Spend less time managing storage with automated failover, load balancing, auto-tiering and migration. Automatically correct performance issues and bottlenecks, and provision more quickly with dynamic virtual controllers.

#### Simplified Operations

Eradicate complexities and manage storage from a business view with Hitachi Command Suite. Unified Storage is easy to deploy and scale for handling shifting data requirements and business-critical applications. Gain storage agility and security

for multitenancy and cloud with the ability to provide IT assets as needed to support a wide range of infrastructure and content services in most cloud models.

#### Application-Consistent Data Protection

Leverage the advantages of disk-based data protection for application-aware recovery for meeting local recovery needs. Using Hitachi Application Protector, backup, restore and failover are simplified. Application-consistent snapshots better support file, block and object data types stored on HUS 100 family, including Microsoft® Exchange, SQL Server® and SharePoint®.

#### Pervasive Protection and Replication

Hitachi Unified Storage 100 family furnishes administrators with pervasive data protection and replication tools to reduce business risk, downtime and migration concerns. Hitachi Dynamic Provisioning provides data pool support and management for Hitachi Copy-on-Write Snapshot copies and Hitachi TrueCopy Extended Distance data copies. It includes generous capacity for copies and groups, and support for all major applications. Create up to 1024 snapshots per volume or file system and replicate all data remotely and without limits.

#### Integrated Solutions

HUS 100 family helps IT deliver enterprise-level performance for Microsoft, VMware and Oracle solutions to improve application uptime, backup windows and service levels. Application plug-ins enable HUS 100 family to be managed directly from application management consoles.

#### Economical Storage

Reduce the total cost structure and gain significant return on investment in Hitachi Unified Storage 100 family with its efficient design and progressive technologies. HUS 100 family allows your administrators to consolidate separate file and block storage into a single cohesive architecture, effectively cutting capital acquisition costs and reducing operational expenditures.

Innovation is the engine of change, and information is its fuel. Innovate intelligently to lead your market, grow your company, and change the world. Manage your information with Hitachi Data Systems.

**>>> INNOVATE  
WITH INFORMATION™**

[www.hds.com/innovate](http://www.hds.com/innovate)

Thin provisioning, automatic tiering and performance gains enable users to improve capacity efficiency, storage utilization and data management.

#### Ready for Service Level Agreements

Meeting service levels for critical business applications has never been easier, with highest levels of performance, data availability and data protection for all file, block and object data. HUS 100 family is designed to exceed 99.999% data availability and advanced management capabilities for nimble execution of service level agreements and customer expectations.

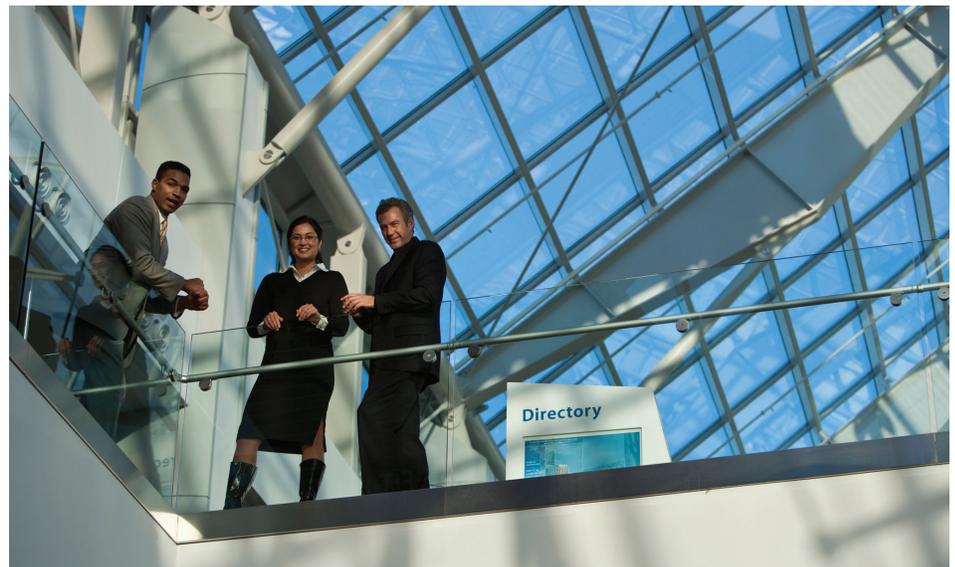
#### For More Information

For more information on how to unify your storage without compromise using Hitachi Unified Storage 100 family systems, please visit [www.HDS.com](http://www.HDS.com).

#### HITACHI UNIFIED STORAGE 100 FAMILY CAPABILITIES

Hitachi Unified Storage 100 family systems are the only midrange storage systems that can consolidate file, block and object data on a central platform. HUS 100 family redefines unified storage for the future to:

- Harness data growth demands.
- Control rising capital and operational costs.
- Simplify operations for all data types.
- Meet service level objectives.
- Effortlessly balance scalability and performance.
- Reduce downtime and business risk.
- Manage replication, migration and backup.



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