D A T A S H E E T

Hitachi Simple Modular Storage 100 for Microsoft® Windows–based Solutions

As a *Microsoft Gold Certified Partner*, Hitachi Data Systems offers a complete line of solutions optimized for Microsoft application environments, including those that provide optimal storage environments for Windows-based solutions.

Hitachi Data Systems objectives for the alliance with Microsoft are to design tightly integrated storage solutions that complement the Windows environment and to enable organizations of all sizes to implement scalable, highly available and reliable architectures in a cost-effective way.

Hitachi Data Systems, in close collaboration with Microsoft and other partners, develops high-performance storage and management software solutions that help organizations benefit from advantages of their Microsoft Windows-based systems. These solutions ensure seamless support of Windows, helping any organization — from the smallest office to the largest enterprise — to reduce the cost and complexity of IT management.

Close integration with Windows technologies is key to the Hitachi Data Systems commitment to provide the optimal user experience for a Windows environment. It includes adoption of and integration with Windows technologies like VSS, VDS and MPIO to provide high availability as well as ease of use with and seamless integration of Windows across Hitachi storage systems. Hitachi Simple Modular Storage 100 is designed to provide a more manageable storage environment for Windows-based solutions.

Hitachi Simple Modular Storage 100: Uncompromised Reliability and Performance for Microsoft Windows Environments

- *Provides small and medium businesses (SMBs) simple and easy to manage enterprise-class storage features:* You can install and maintain the platform and attach virtually any server to it using an Ethernet (iSCSI) network. No storage expertise is required.

- *Ships with single or dual controllers and includes 6, 8 or 12 hard disk drives:* The system offers options for either high-performance SAS (Serial Attached SCSI) or cost-effective SATA II in a RAID-6 (rotating data and rotating dual parity) configuration for leading edge data protection.

- *Automatically "self-heals" in the rare event of a drive failure:* Each model has patented "repair slots," so spare disk drives can be easily added, allowing full RAID protection to be reestablished in place after a drive failure without the need for technical professionals.

- *Enables straightforward upgrades[1] to higher capacity or performance with a simple and secure automigration feature:* The data and configuration parameters are copied to the new unit using the automigration feature. In the case of a replacement installation, license keys and warranty info can also be copied to the new unit.

- *Ships with the software necessary to install, manage and back up data for efficient protection and operational simplicity:* The new Hitachi Storage Navigator Modular 2 software is developed for most SMBs who lack storage expertise and administration staff. The easy-to-use graphical user interface or GUI includes installation, maintenance and configuration wizards. This eliminates the need for onsite consultations and simplifies provisioning and management, while providing advanced backup and nondisruptive snapshots. Hitachi Copy-on-Write Snapshot software is included with all dual controller models.

Enabling Simplified Access to Data

- *Hitachi Simple Modular Storage 100 is integrated and fully compatible with Microsoft solutions:* Microsoft Windows 2003 R2, Microsoft Windows 2008, Microsoft Windows XP and Microsoft Windows Vista. The platform provides the optimal storage environment for managing data-centric applications, such as Microsoft Exchange and Microsoft SQL Server.

- *Microsoft Windows Unified Data Storage Server 2003 provides an integrated solution offering unified file-level and block-level storage management with the ability to support heterogeneous clients:* Hitachi Simple Modular Storage 100 integrates Windows storage APIs (application programming interfaces), to provide robust and fast backup

Hitachi Simple Modular Storage 100

What Problem Are We Solving?

- SMBs have difficulty managing capacity growth and performance.

- Protecting data (backup and restore) is very difficult and time consuming for internal storage.

- Most external storage products sold to SMBs are either too complex and too expensive or too inadequate to meet their needs.

- SMBs typically do not have full-time IT staff, which limits their technology adoption practices.

Why Is This Solution Better than Others?

- This cost-effective enterprise-class storage product is easily installed and maintained.

- The solution offers RAID-6 (dual) parity for maximum protection as well as patented repair slots where replacement hard disk drives (HDDs) can be added, if needed. All data can be copied quickly should an organization outgrow their Simple Modular Storage device.

- The product comes with a complete GUI-based software tool and easy-to-configure and easy-to-manage replication tools.

- Few competing products offer these advanced solutions and none offer them all at an affordable price!

Hitachi Simple Modular Storage 100: Components

Hitachi Simple Modular Storage 100 ships with single or dual controllers with 1GB or 2GB of cache and 2 or 4 iSCSI ports. It can be ordered with 6, 8 or 12 HDDs and populated with: 146GB 15,000RPM SAS, 300GB 15,000RPM SAS or 400GB 10,000RPM SAS; or 500GB, 750GB or 1TB 7,200RPM SATA II. All models ship with Hitachi Storage Navigator Modular 2, which provides an intuitive, simple-to-use, GUI-based management tool for all features, including installation, configuration, security, backup and restore. Hitachi Copy-on-Write Snapshot software is also included in dual controller models and managed from the Storage Navigator GUI.

Hitachi Simple Modular Storage 100: Key Features

Reliable and cost-effective enterprise-class storage features	Simple Modular Storage ships with RAID-6, active/active controllers, SAS or SATA II HDDs and a number of other features not found in the SMB market. SMBs can now afford a world-class storage solution offering complete data protection that is easy to manage.
	New patented repair slots and automatic data migration features keep the storage up and running for years, while allowing data to be copied quickly and simply when upgrading[1] to another model.
	Internal and external data copies make for more frequent, easy-to-manage data backups for even better protection.
Easy to install, maintain and use	Out of the box and into production in under one hour — organizations can maintain the platform themselves and manage several servers' storage volumes from a simple GUI-based management tool.
	Designed to work with Microsoft Windows and other applications and environments common to SMBs.
	Microcode and other software can be downloaded from an entitlements site and uploaded by the administrator when convenient.
Highly flexible	Organizations can choose from single or dual controller models with SAS or SATA II HDDs and can select 6, 8 or 12 HDDs in a RAID-6 configuration.
	Complete data protection software solutions are included.

and data recovery and seamless storage management. Combined with Microsoft Windows Unified Data Storage Server 2003, the platform provides an optimal, reliable solution to manage business data for file, print and application data with enhanced visibility and control.

- *Continuing its commitment to its customers,* Hitachi Data Systems will continue to work with Microsoft to ensure that Hitachi Simple Modular Storage 100 is fully compatible with new Windows operating systems and applications releases, as soon as they available on the market.

The powerful combination of Hitachi Simple Modular Storage 100 and Windows technologies provides a comprehensive platform distinguished by ease of use, high-performance data protection and price. Please visit http://www.hds.com.

[1] Product/feature not yet available — planned for future release.

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