

Hitachi TagmaStore[™] Workgroup Modular Storage Model WMS100

For small- and medium-sized businesses, the all-SATA model WMS100 offers a highly scalable, reliable, and cost-effective platform for Microsoft Exchange Server and other business applications, consolidation, first SAN deployment, NAS access, backup, or data archiving.

Enterprise-class Solutions for SMB Customers

Small- and medium-sized businesses (SMBs) are facing big-company challenges of escalating data growth, availability, and protection as well as regulatory compliance and complex storage infrastructures. With many years of experience serving Fortune 500 companies, Hitachi Data Systems understands these challenges and has developed Application Optimized Storage[™] solutions to match application requirements to storage attributes. Now Hitachi Data Systems brings SMB customers these proven solutions in modular, cost-effective packaging - including the Hitachi TagmaStore[™] Workgroup Modular Storage model WMS100.

Business Benefits

Consolidate storage, anticipate growth, centralise management, and reduce costs

- Move from inflexible and expensive, server-internal storage to cost-effective, scalable external storage, consolidate multiple storage systems into one, or build a first storage area network (SAN).
- :: Scale to 42TB of Serial ATA (SATA) storage to keep up with data growth.
- :: Support very large numbers of servers and applications with 512 LUNs.
- **::** Reduce management complexity and cost with a centralised storage infrastructure.

:: Benefit from easy-to-use software utilities for configuration and management.

Protect critical data

- Enhanced SATA data protection for unmatched data availability and resiliency
- RAID-6 for high availability and rapid RAID group rebuild times in the rare event of a disk drive problem
- Hi-Track[®] "call-home" service/remote maintenance tool for 24/7 diagnostics to keep potential issues from becoming problems
- :: Fully redundant and hot-swappable components to keep applications online
- :: Within-system volume replication or incremental copies for frequent backups

Enhance application performance

- SMB workloads.
- **::** Partition and dedicate cache to maximise performance of high-I/O applications.

Build a first storage network or extend an existing one

- :: Simple SAN and SAN Starter solutions for easy deployment
- :: Diskless boot for SAN-attached servers
- :: High-capacity storage for NAS applications

Modular Storage for the Midrange Market

- :: Hitachi TagmaStore™ Network Storage Controller
- :: Hitachi Thunder 9585V™ ultra high-end modular storage
- :: Hitachi TagmaStore™ Adaptable Modular Storage model AMS500
- :: Hitachi TagmaStore™ Adaptable Modular Storage model AMS200
- :: Hitachi TagmaStore™ Workgroup Modular Storage model WMS100

Leverage for SMB applications or enterprise tiered storage deployments

- :: Microsoft Exchange, ERP, CRM, NAS filer, backup applications, or tape replacement
- Archival and long-term tamperproof data ::: retention to meet regulatory requirements
- :: Combine with Hitachi enterprise-class storage for complete data lifecycle management solutions within a tiered storage environment.

Workgroup Modular Storage - Model WMS100 Specifications

Software

software

Management

Point-in-time

Serverless disk

copy and tape

LUN security

LU-change-ownership

Multiple LUN0/Port

read many" (WORM) data protection Dynamic LUN

Storage systembased "write once,

management

Host failover

SAN support

Heterogeneous

SAN management

Host Storage Domains virtual private storage

copy

Physical Characteristics	
Raw capacity	42TB (SATA)
Disk drive technology	250GB SATA (7200RPM) 400GB SATA (7200RPM)
Disk drive interface	SATA
Minimum/maximum number of disk drives	5–105 SATA
Model upgrade options	No
Number of controllers	1 or 2
Host Fibre Channel connections	4 at 1Gbit/sec or 2Gbit/sec
Maximum attached hosts (virtual ports)	512
Active loops per number of disk drives	4/15
LUNs	512
RAID Support	
:: RAID-1 :	: RAID-5
:: RAID-0+1 :	: RAID-6
Availability	
Nondisruptive component replacement	MAJOR FRU
Nondisruptive hot-plugga	able disks
Nondisruptive microcode	updates
Hi-Track [®] "call-home" serv maintenance tool	ice/remote
Performance	
Maximum cache	512MB-2GB
Cache binding	Hitachi Cache Residency Manager
Cache partitioning	

:: Match application requirements (performance, availability, cost, and functionality) to storage attributes. :: Use advanced features to help improve the reliability and usability within any

performance, availability, and scalability

Optimize TCO with outstanding

Common APIs across Hitachi storage

modular infrastructure or mission-critical SMB operation, and for specific application workloads.

Hitachi Resource Manager™

utility package, Hitachi

HiCommand® Suite

Management (SAM)

Hitachi ShadowImage™

In-System Replication,

Hitachi Cross-System

Copy to/from Hitachi TagmaStore[™] Universal Storage Platform and Hitachi Lightning 9900[™] V Series systems

Hitachi Volume Security

Hitachi Data

Retention Utility

Logical Volume

Concatentation

Nonproprietary

Hitachi Dynamic Link Manager[™] path manager

> **HiCommand Storage** Services Manager and

Provisioning Manager, both powered by AppIQ

HiCommand Path

Hitachi Copy-on-Write Snapshot

and Storage Area



Hitachi Data Systems Corporation

Europe Headquarters Sefton Park Stoke Poges Buckinghamshire SL2 4HD United Kingdom Phone: +44 (0) 1753 618000 info.eu@hds.com

Hitachi Data Systems is registered with the U.S. Patent and Trademark Office as a trademark and service mark of Hitachi, Ltd. The Hitachi Data Systems logotype is a trademark and service mark of Hitachi, Ltd. HiCommand Is a registered trademark of Hitachi, Ltd.

Hi-Track is a registered trademark and Application Optimized Storage, Shadowlmage, Resource Manager, Lightning 9900 Dynamic Link Manager, and TagmaStore are trademarks of Hitachi Data Systems Corporation.

All other product and company names are, or may be, trademarks or service marks of their respective owners

Notice: This document is for informational purposes only, and does not set forth any warranty, express or implied, concerning any equipment or service offered or to be offered by Hitachi Data Systems. This document describes some capabilities that are conditioned on a maintenance contract with Hitachi Data Systems being in effect, and that may be configuration-dependent, and features that may not be currently available. Contact your local Hitachi Data System sales office for information on feature and product availability.

Hitachi Data Systems sells and licenses its products subject to certain terms and conditions, including limited warranties. To see a copy of these terms and conditions prior to purchase or license, please go to http://www.hds.com/products_services/ support/warranty.html or call your local sales representative to obtain a printed copy. If you purchase or license the product, you are deemed to have accepted these terms and conditions.

©2005, Hitachi Data Systems Corporation. All Rights Reserved. DISK-548-00-EU June 2005

Operating Systems Support		
:: IBM® AIX®	:: LINUX	
:: HP-UX	:: HP OpenVMS	
Sun SolarisMicrosoft Windows NT, Windows 2000,	:: NetApp® Data ONTAP, via HDS-NetApp Enterprise NAS Gateway	
Windows Server 2003 HP Tru64 UNIX	:: IBM z/OS [®] , via Universal Storage Platform external attachment	
:: SGI IRIX	:: VMWare	
:: Novell NetWare	:: Apple MAC OS	

Note: All capacities are based on 1GB = 1,000,000,000 bytes; 1TB = 1000GB