



Increased efficiency. Reduced complexity.



**A dedicated file server designed for dependability, ease of integration and best value in networked storage**

### ▶ Windows Storage Server 2003

Using the power of Microsoft® Windows Server™ 2003, Windows® Storage Server 2003 helps organizations to store and protect valuable end user data. From branch office file serving to full integration in the data center, Microsoft Windows Storage Server 2003 is the dependable choice in storage. The hardware is easy to install, easy to manage, and offers a wider array of features that simplify file serving and the backup/replication of mission-critical data.

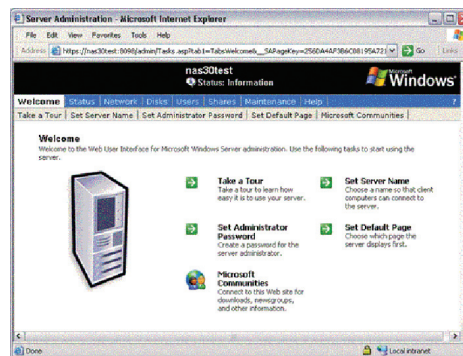
### ▶ What's New in Microsoft Windows Storage Server 2003

- Volume Shadow Copy Service for fast restore of your data
- Enhanced file serving performance for faster SMB and NFS file serving
- Support for Multi-Path IO for improved availability and load balancing
- Better integration with SANs including the capability of being a gateway to multi-vendor SANs
- iSCSI support to enable connectivity to IP targets and IP SANs
- Enhanced Web-based user interface for simple, efficient management of the device

### ▶ Dependable

- **HIGH RELIABILITY** Access stored files with more reliability using a Windows operating system that is dedicated for file serving by including only the processes that are relevant to that task, therefore improving robustness. Built-in hardware redundancies are included in most solutions to provide a fully redundant architecture.
- **AVAILABILITY** Create high availability solutions with native support for multi-nodes (up to 8) failover clustering. With support for multi-path IO (MPIO) from host to storage, highly available solutions at the data transport level (up to 32 paths to storage supported) can also be implemented. The ultimate in high availability solutions are built by joining these features with the Distributed File System (DFS), ensuring availability at the file and physical device level.

- **FAST DATA RECOVERY** Restores deleted or corrupted files within minutes using Shadow Copy of Shared Folders, instead of the hours it takes to restore from tape. This application built on Volume Shadow Copy Service can store up to 64 point-in-time copies per volume and provides the ability for end users to recover previous version of files.
- **REPLICATION\*** Increase data availability and provide disaster recovery by creating multiple copies of data on remote servers over local area networks (LANs) or wide area networks (WANs) using an integrated technology solution.



Easily deploy and manage Windows Storage Server 2003 through a Web user interface.

### ▶ Integrates Seamlessly

- **SEAMLESS INTEGRATION INTO IT INFRASTRUCTURE** Heterogeneous support so that data can be shared amongst different platforms through the integration of SMB, NFS, AppleTalk, and Netware protocols. This coupled with the native integration with Active Directory® service means no more network changes when deploying storage devices based on Microsoft Windows Storage Server 2003.

\* Most configurations—check with your OEM.

- INTEGRATES WITH EXISTING IT INVESTMENTS** Server management tools (Microsoft Systems Management Server, Tivoli, HP OpenView) and existing anti-virus software are fully compatible with Microsoft Windows Storage Server 2003 so you can take advantage of your current investment. The hardware also integrates natively with Active Directory enabling the use of Group Policy Objects, Kerberos Authentication, and Encrypted File System to preserve data security in the IT infrastructure.
- NAS-SAN INTEGRATION** For organizations that have deployed a Storage Area Network (SAN), Windows Storage Server 2003 is the perfect choice to act as a gateway to that SAN. The storage server utilizes the enhanced support for SAN in Windows Server 2003: remote boot, flexible volume mounting, and an enhanced driver model to support SAN device. Now both clients and applications servers can be integrated into a truly centralized storage environment for optimum storage utilization.
- iSCSI SUPPORT** Windows Storage Server 2003 supports the iSCSI protocol, making it easy to integrate in IP data transport environments.

## ▶ Best Economics

- LOW ACQUISITION AND INSTALLATION COSTS** Windows Storage Server 2003 enables solutions with some of the lowest costs per gigabyte in the industry. These solutions can be deployed in minutes by using the Web interface to connect to the network, join an Active Directory Domain (or local workgroup), add users, create shares, and select file sharing protocols. This adds up to a very quick installation at low cost.
- REDUCE OVERALL MANAGEMENT COST—LOW TOTAL COST OF OWNERSHIP (TCO)** Consolidating multiple file servers to a single device reduces server management overhead and associated IT staff costs. Devices can also be remotely managed through a Web user interface, simplifying maintenance and providing centralized control of processes like backup, restore, and upgrades.
- SCALABLE SOLUTION TO GROW WITH YOUR BUSINESS** Windows Storage Server 2003 enables IT administrators to easily manage growing amounts of data and to take advantage of high scalability to expand storage capacity as needed. With this scalability, a “pay as you grow” strategy can be implemented to efficiently use the storage hardware resources.

## ▶ For More Information

A scalable solution based on Microsoft Windows Storage Server 2003 is available to meet your needs, whether you're a small business looking for a cost-effective heterogeneous file server, a medium-size business wanting to ensure high availability of data, or a large enterprise seeking to consolidate many file servers from various platforms.

To learn more about Windows Storage Server 2003 and our leading OEM solutions, visit <http://www.microsoft.com/storage>.

## ▶ Deployment Scenarios

- FILE SERVING** Deploy an optimized file server to address growing storage requirements. Data protection features and support for multiple file protocols makes Windows Storage Server 2003 the ideal solution for heterogeneous file serving. Integration with Active Directory services enables data security and ease of management.
- SERVER CONSOLIDATION** Consolidate multiple file servers to reduce costs and improve availability. Windows Storage Server 2003 is a proven solution for server consolidation, with customers realizing the benefits of improved reliability, easier management, and lower TCO.
- BACKUP/RESTORE AND REPLICATION** Enable rapid restoration of mission-critical data. Windows Storage Server 2003 can be used for backup of multiple production servers without taking them offline. Achieve high data availability through replication across multiple sites using integrated technology solutions from industry partners.
- NAS/SAN INTEGRATION** Provide a highly scalable file-serving environment while using existing Storage Area Network (SAN) investments. Support for Virtual Disk Service enables integration in multi-vendor SANs.

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Windows Storage Server 2003 is part of Windows Server System<sup>™</sup>—server infrastructure that simplifies the development, deployment, and management of flexible business solutions. [www.microsoft.com/windowsserversystem](http://www.microsoft.com/windowsserversystem)