



Microsoft®  
**Windows**  
**Storage Server™ 2003 R2**

*Microsoft® Windows® Storage Server 2003 R2 is a scalable, branch-ready platform for network attached storage that offers excellent price performance value, enhanced management and superior reliability to organizations of all sizes.*

Microsoft Windows Storage Server 2003 R2 provides a fast, reliable, and scalable platform for Network Attached Storage (NAS).

The flexible design of Windows Storage Server 2003 R2 delivers excellent price performance value and intuitive management. Organizations of all sizes can create effective NAS solutions that can adapt to and solve the simplest or most complex storage need. Moreover, Windows Storage Server 2003 R2 comes in a variety of different configurations from OEMs to meet different organizations' needs.

Windows Storage Server 2003 R2 is built on the proven Windows Server™ 2003 family code base with all of its superior security, stability and management advantages, and is Microsoft's third generation NAS product.

Windows Storage Server 2003 R2 adds new search capabilities, simplified setup and storage management, extensibility, and is specially tuned to provide optimal NAS performance.

**To learn more about Windows Storage Server 2003 R2, see the following:**  
<http://www.microsoft.com/windowserversystem/wss2003/default.mspx>

#### **Single Instance Storage**

Single Instance Storage (SIS) recovers disk space by reducing the amount of redundant data stored on a server, by identifying identical files, storing a single copy of the file in a central repository and replacing the files with pointers to the file in the SIS common store.

SIS works automatically without any end-user involvement. The

administrator can enable SIS on a per volume basis, and for best results the administrator should use a backup application that supports SIS.

#### **Search Enhancements**

Indexing Service extracts the information from a set of documents and organizes it in a way that makes it quick and easy to access that information through the Search function for computers running Windows 2000 or Windows XP. This information can include text from within a document (its contents), and the characteristics and parameters of the document (its properties), such as the author's name.

#### **Windows SharePoint® Services**

Microsoft Windows SharePoint Services is a powerful Web-based team collaboration environment that is included in Windows Storage Server 2003 R2. Windows SharePoint Services provides an integrated portfolio of collaboration and communication services designed to connect people, information, processes, and system both within and beyond the organizational firewalls.

#### **Efficient Storage Management**

Windows Storage Server 2003 R2 includes new tools designed to provide a centralized view of storage; simplified storage planning, provisioning and maintenance; and improved monitoring and reporting. These benefits enable administrators to more efficiently manage storage across IT resources and optimize storage space on those resources.

#### **Distributed File System**

The Distributed File System (DFS) solution in Windows Storage Server 2003 R2 helps administrators make files available to more users on a

number of distributed servers without increasing administrative complexity all while maintaining the increased security of Windows Server 2003 SP1. The DFS solution in Windows Storage Server 2003 R2 helps to address these administrative challenges by providing two technologies: DFS namespaces and DFS replication, that, used together, provide simplified, fault-tolerant access to files, load sharing, and WAN-friendly replication.

DFS replication, the successor to File Replication Service (FRS), is a new state-based, multi-master replication engine that supports replication scheduling and bandwidth throttling. DFS replication uses a new compression algorithm known as Remote Differential Compression (RDC). RDC is a WAN-enabled compression technology that efficiently updates files over limited bandwidth networks by replicating only the changes needed to ensure global file consistency.

#### **Predictable and Easy to Adopt**

Windows Storage Server 2003 R2 was built on the efficient, reliable code base of the Windows Server 2003 family. Since it shares the same code base, there is no need for separate application compatibility testing, as all storage applications tested for Windows Server 2003 will function with Windows Storage Server 2003 R2. Plus, antivirus and backup applications that work with Windows Server 2003 operating systems will work with Windows Storage Server 2003 R2.

## Windows Storage Server 2003 R2 Key Features and Benefits

Microsoft Windows Storage Server 2003 R2 is a platform for network attached storage that provides organizations of all sizes with a Branch Office-ready NAS solution featuring enhanced manageability, increased productivity, and excellent price performance value.

ENHANCED MANAGABILITY	
<b>Single Instance Storage (SIS)</b>	Single Instance storage enables the server to store only one instance on the disk although several copies of the same file might exist to the application. This is created by using links which are independent of user intervention and has been shown to save more than 35% disk space and reduce storage management costs.
<b>File Server Resource Manager (FSRM)</b>	FSRM give administrators more knowledge of and control over what and how much is stored on file servers. First, FSRM provides administrators with both on-demand and scheduled reports detailing storage use. Second, FSRM folder-based quotas allow administrators to limit the size of folders and volumes. Third, FSRM file screening controls the type of data stored in a file or folder, permitting both the name-based screening of files and allowing/disallowing file creation on specified folder trees.
<b>Storage Manager for SANs (SMfS)</b>	SMfS enables the Windows Storage Server 2003 R2 SAN scenario, a NAS gateway the SAN storage processor and disk array. SMfS natively provides basic SAN management, such as device discovery, LUN creation, storage allocation. Moreover, SMfS enables shared storage solutions and clustering.
INCREASED PRODUCTIVITY	
<b>Optimized Performance</b>	Due to file server optimization, Windows Storage Server 2003 R2 is 15-20% faster than a general purpose Windows Server 2003 R2 in file serving. This is possible because Windows Storage Server is designed as a dedicated file and print serving appliance.
<b>Enhanced Search</b>	Users not only want to store their files on a NAS appliance, they also want to quickly and efficiently locate what they store. With full text search Windows Storage Server 2003 R2 enables users to search the content of their files from the convenience of their desktops.
<b>Windows SharePoint Services</b>	Windows SharePoint Services technology in Windows Storage Server 2003 R2, takes the NAS technology to a completely new level. Windows SharePoint Services creates a team collaboration infrastructure that allows multiple end users to collaborate on the same documents and also enables end-user administration.
<b>File Sharing Across Different Operating Systems</b>	Windows Storage Server 2003 R2 provides seamless UNIX/Windows interoperability. Windows Storage Server 2003 R2 natively supports Linux and UNIX clients, authenticates users across platforms, and shares files and data across multiple operating systems. Moreover, the Windows Storage Server 2003 R2 solution to cross-platform file sharing is tested and supported by Microsoft.
BRANCH READY	
<b>New Distributed File System</b>	Windows Storage Server 2003 R2 offers a new distributed file system implementation (DFS-N & DFS-R), with a new UI, WAN traffic compression based on RDC. This makes it easy to access your storage resources from anywhere by virtualizing the namespace and efficient data replication from branch to datacenter.
<b>Print Management Console</b>	Print management console is integrated into the core functionality of Windows Storage Server 2003 R2. It allows you to manage multiple printers from a single console. PMC works efficiently over WAN for branch office scenario, it also implements a push printer capability.

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