



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 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 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/windowsserver/system/wss2003/default.msp>

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.

The administrator can enable SIS to run automatically 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 (e.g. its contents), and the characteristics and parameters of the document (e.g. 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 enhanced 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, while minimizing administrative complexity and 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, when 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 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	
Single Instance Storage (SIS)	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 substantial disk space and reduce storage management costs.
File Server Resource Manager (FSRM)	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.
Storage Manager for SANs (SMfS)	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, and storage allocation. Moreover, SMfS enables shared storage solutions and clustering.
INCREASED PRODUCTIVITY	
Optimized Performance	Due to file server optimization, Windows Storage Server 2003 R2 quite often performs 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.
Enhanced Search	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.
Windows SharePoint Services	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.
File Sharing Across Different Operating Systems	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	
New Distributed File System	Windows Storage Server 2003 R2 offers a new distributed file system implementation (DFS-N & DFS-R), with a new user interface and WAN traffic compression based on Remote Differential Compression. This makes it easy to access your storage resources from anywhere by virtualizing the namespace and efficiently replicating data from branch to datacenter.
Print Management Console	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.

The information contained in this document represents the current view of Microsoft Corporation on the issues discussed as of the date of publication. Because Microsoft must respond to changing market conditions, it should not be interpreted to be a commitment on the part of Microsoft, and Microsoft cannot guarantee the accuracy of any information presented after the date of publication. The information represents the product at the time this document was printed and should be used for planning purposes only. Information subject to change at any time without prior notice.

This document is for informational purposes only. MICROSOFT MAKES NO WARRANTIES, EXPRESS OR IMPLIED, IN THIS DOCUMENT.

© 2006 Microsoft Corporation. All rights reserved. Microsoft, Windows SharePoint Services, Windows, Windows Storage Server 2003, Windows Server 2003, the Windows logo, Windows Server, and Windows Server System are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. The names of actual companies and products mentioned herein may be the trademarks of their respective owner.

The information contained in this document, including all instructions, cautions, and regulatory approvals and certifications, is provided by Microsoft and has not been independently verified or tested by Dell. Dell cannot be responsible for damage caused as a result of either following or failing to follow these instructions. All statements or claims regarding the properties, capabilities, speeds or qualifications of the part referenced in this document are made by Microsoft and not by Dell. Dell specifically disclaims knowledge of the accuracy, completeness or substantiation for any such statements. All questions or comments relating to such statements or claims should be directed to Microsoft.