Welcome to the Microsoft® Server with Embedded Licensing Product Guide

Microsoft® Embedded Server Products give OEMs a powerful way to leverage the advanced Windows Server technology that is part of the Microsoft server product portfolio. These server software products provide the infrastructure for IT operations, security, application integration, and collaboration.

» THE RIGHT SERVER TECHNOLOGY, THE RIGHT PRICE FOR OEMS

Microsoft Server with Embedded Licensing products include optimized operating systems and server application software to address key dedicated server and server appliance deployment scenarios. Because Microsoft Server with Embedded Licensing products are designed and licensed to provide specific server functionality within an IT infrastructure, Microsoft makes these server technologies available to OEMs at lower royalty rates when compared to Microsoft general purpose server systems. The result is powerful server technology at a price that OEMs can utilize to compete in price-sensitive markets.

» A SMART CHOICE FOR OEMS AND THEIR END CUSTOMERS

More and more independent analysts and leading companies are finding that Microsoft Server technologies outperform Linux on total cost of ownership (TCO), reliability, security, and indemnification from intellectual property risks. For dedicated server and server appliance solutions, the choice is clearer than ever: Microsoft Server with Embedded Licensing products.

VERSION 3

» SOFTWARE AND RESOURCES YOU NEED TO GET TO MARKET FAST

Microsoft Server with Embedded Licensing products provide several key advantages to OEMs, including:

» Reduced time-to-market through use of Microsoft-provided development tools and documentation, and software that is compatible with commodity hardware and industry standard protocols.

» Opportunity to add unique value through the extensible nature of the Microsoft Server product portfolio and breadth of available third-party Independent Software Vendors (ISV) solutions.

» Lower support and training needs for customers because of the hardened, streamlined nature of dedicated server and server appliance solutions.

» Greater productivity as Microsoft Server with Embedded Licensing products are easier for customers to deploy, manage, and use in existing Microsoft Windows operating system environments.

Introductory OEM Licensable Products

Search for your Microsoft Authorized Embedded Distributor at:
http://www.microsoft.com/windowsserversystem/solutions/specializedservers/distributorsearch.aspx

INTRODUCTION TO OEM LICENSABLE PRODUCTS
The Microsoft® Server with Embedded Licensing Product Guide is designed to help you understand the variety of dedicated server and server appliance solutions that can be built using Microsoft Server with Embedded Licensing products. The below Chooser can help you identify which Microsoft server products can help you deliver dedicated server or server appliance solutions to your customers.

If you know which product you are interested in, or would like to learn more about other Microsoft Server with Embedded Licensing offerings, take a look at the related product page in the Table of Contents on the left. Once you have identified the products that fit your needs, contact a Microsoft Authorized Embedded Distributor to discuss bringing your dedicated server or server appliance to market. To find a Distributor please visit (*http://www.microsoft.com/windowsserversystem/solutions/specializedservers/distributorsearch.aspx*) for details.

For the most current listing of embedded server products available from Microsoft, please visit our website. *http://www.microsoft.com/windowsserversystem/solutions/specializedservers/default.aspx*.

Introductory OEM Licensable Products

WHAT TYPE OF APPLICATION ARE YOU PLANNING TO PROVIDE ON YOUR SERVER PRODUCT?
SELECT ONE

A An industry or task specific embedded application which provides the primary functionality of the embedded server.

REFER TO CHOOSER BELOW

B Line of business applications, i.e. accounting, email, word processing, CRM, etc.

GENERAL PURPOSE, NON-EMBEDDED SERVER OPERATING SYSTEMS, PAGE 31

C A server with an application to back up other Windows Servers, Exchange Servers and/or SQL Servers?

MICROSOFT® SYSTEM CENTER DATA PROTECTION MANAGER 2007, PAGE 26

D An embedded application in need of a backend database?

SQL SERVER® 2008 FOR EMBEDDED SYSTEMS, PAGES 28–29

? Is the embedded application to be pre-installed with the operating system onto the server before being sold?

Refer to Microsoft's non-embedded, Windows Server System platforms, page 31.

IF YES,   IF NO,

? Will the specialized system provide authentication or network infrastructure services such as Active Directory or require a connected keyboard, monitor or mouse to perform its dedicated purpose?

Windows® Server 2008 for Embedded Systems, pages 4–5

IF NO,   IF YES,

? **WHAT TYPE OF SPECIALIZED SERVER SOLUTION ARE YOU PLANNING TO BUILD?**
SELECT ONE

A File Server, Network Attached Storage, Storage Area Network Gateway, or other storage solution.

WINDOWS® UNIFIED DATA STORAGE SERVER 2003 AND WINDOWS® STORAGE SERVER 2003 R2 PAGE 7

B Server appliance with your own embedded application which provides the primary functionality of the solution.

WINDOWS SERVER® 2008 FOR EMBEDDED SYSTEMS – ESSENTIALS PAGE 9

C Servers for PBX, IP PBX, Automated Attendant, Interactive Voice Response or other specialized telecommunications applications.

WINDOWS SERVER® 2008 FOR EMBEDDED SYSTEMS – TELECOMMUNICATIONS PAGE 11

D VPN, Firewall, Web cache server.

MICROSOFT® INTERNET SECURITY AND ACCELERATION SERVER 2006 AND INTELLIGENT APPLICATION GATEWAY 2007 PAGES 14–15

E Branch Office server for caching, collaboration, file and print.

MICROSOFT® BRANCH OFFICE APPLIANCE PAGE 24

F Servers for use in small office or home office to back up PCs and store digital photos, music, video, documents, etc.

WINDOWS® HOME SERVER PAGES 18–19

Windows Server 2008

Windows Server® 2008 for Embedded Systems
www.microsoft.com/server

Windows Server® 2008 for Embedded Systems, with its new security, management and virtualization technologies, is a robust, secure, and reliable foundation on which to develop, build and deliver dedicated and specialized servers and server appliances. Windows Server 2008 for Embedded Systems is based on the same software as the general purpose versions of Windows Server 2008 and only differs from general purpose Windows Server 2008 exclusively in the licensing provisions. OEMs license the software for use in dedicated server environments at a reduced royalty rate relative to general purpose server and with licensing terms applicable to the embedded market.

Windows Server 2008 for Embedded Systems, with its smaller footprint, new virtualization technology for building multi-function appliances, new management and security technologies and lower acquisition costs, is a robust, secure, and reliable Windows Server operating system on which to develop and deliver best-of-breed dedicated solutions and appliances.

WINDOWS SERVER 2008 HAS MADE ENHANCEMENTS IN THE FOLLOWING AREAS:

SMALLER FOOTPRINT – SERVER CORE
Windows Server 2008 for Embedded Systems enables you to build smaller footprint, dedicated server appliances by allowing you to install only the roles and features you need. This smaller footprint via the new features of Server Core and Role-based Installation simplifies ongoing maintenance by reducing the need for software updates and minimizing the attack surface area. Server Core is a new installation option for selected server roles (Virtualization, Read-Only Domain Controller, ADAM, DNS, WINS, DHCP, IIS, File and Print Server) that does not include a graphical user interface and non-related features and services. Because Server Core installations include only what is required for the designated roles, it provides a highly available server that requires fewer updates and less servicing.

SMALLER FOOTPRINT – ROLE-BASED INSTALLATION
Relative to previous versions of Windows Servers, Windows Server 2008 for Embedded Systems installs only the components you need for a particular server role. This role-based installation simplifies ongoing maintenance by minimizing the attack surface area and reducing the need for software updates thereby reducing the costs of deploying and managing Windows Server as a dedicated server solution. The benefit of role-based installation feature in Windows Server 2008 occurs whether or not one chooses to use Server Core.

VIRTUALIZATION: HYPER-V™
Microsoft Hyper-V™ is the new hypervisor-based virtualization technology included as part of Windows Server 2008 for Embedded Systems at no additional cost. With its built-in server virtualization technology, Windows Server 2008 for Embedded Systems enables OEMs to increase hardware utilization and more easily build multi-function server appliances. OEMs can run new and legacy functionality side-by-side on the same hardware while ensuring workload isolation. Hyper-V also allows OEMs to run Windows and Linux on the same server appliance hardware.

SECURITY – BITLOCKER
BitLocker Drive Encryption is a data protection feature that consists of both drive encryption and integrity checking to ensure that an encrypted drive is located in the original computer. BitLocker provides a seamless and easily manageable data protection solution that addresses the very real threats of data theft or disclosure from lost, stolen or inappropriately decommissioned hardware.

Windows Server 2008

Windows Server® 2008 for Embedded Systems
www.microsoft.com/server

WINDOWS SERVER 2008 ENHANCEMENTS—CONTINUED:

SECURITY – READ-ONLY DOMAIN CONTROLLER
Active Directory services provide organizations centralized management and network access of users, computers and network resources. To better protect against server theft or compromise, the Read-Only Domain Controller in Windows Server 2008 for Embedded Systems allows dedicated servers and appliances to use Active Directory while restricting replication of the full Active Directory database. Read-only Domain Controllers are ideally suited for scenarios such as branch office locations where network access is critical but the physical security of the appliance cannot be guaranteed.

MANAGEABILITY – POWERSHELL
Windows PowerShell enables administrators to more easily control and safely automate routine system administration tasks, via a new admin-focused command line shell and scripting language. Windows PowerShell accelerates automation of system administration tasks by providing a consistent syntax and useful utilities, and it allows remote management of Windows Server via WMI and WS-Management protocols. Windows PowerShell's easy-to-use command line shell and over 100 command line tools are particularly useful for managing Server Core and headless dedicated server appliances.

Note: Previous versions of Windows Server for Embedded Systems, including Windows Server 2003 for Embedded Systems, are also available for license. Please contact a Microsoft Authorized Embedded Distributor (*http://www.microsoft.com/windowsserversystem/solutions/specializedservers/distributorsearch.aspx*) for details.

Windows Server® 2008 for Embedded Systems:
OEM LICENSABLE PRODUCTS

? **DOES THE SERVER REQUIRE VIRTUALIZATION?**

IF YES,

	EDITION	NOTES
? How many virtual partition sessions do you need?	Windows Server® 2008 for Embedded Systems Enterprise (1-8 CPU)	⋆ 32-bit or 64-bit ⋆ 25 CALs ⋆ Supports Clustering ⋆ Up to 4 Windows virtual partitions
MORE THAN 1		
LESS THAN 1	Windows Server® 2008 for Embedded Systems Standard (1-4 CPU)	⋆ 32-bit or 64-bit ⋆ 5 CALs ⋆ add'l CALs available ⋆ 1 Windows virtual partition

IF NO,

	EDITION	NOTES
? Will the server be designed to participate in a Microsoft cluster?	Windows Server® 2008 without Hyper-V for Embedded Systems Enterprise (1-8 CPU)	⋆ 32-bit or 64-bit ⋆ 25 CALs ⋆ Supports Clustering ⋆ Up to 4 Windows virtual partitions
IF YES,		
IF NO,	Windows Server® 2008 without Hyper-V for Embedded Systems Standard (1-4 CPU)	⋆ 32-bit or 64-bit ⋆ 5 CALs ⋆ add'l CALs available ⋆ 1 Windows virtual partition

Note: Previous versions of Windows Storage Server 2003 Standard, Windows Storage Server 2003 with Service Pack One (SP1) only are also available for license. Please contact a Microsoft Authorized Embedded Distributor at *http://www.microsoft.com/windowsserversystem/solutions/specializedservers/distributorsearch.aspx* for details.

BACKUP AND BACK-END PRODUCTS

? **WHAT TYPE OF APPLICATION ARE YOU PLANNING TO PROVIDE ON YOUR SERVER PRODUCT?**

	EDITION
A A server with an application to back up other Windows Servers, Exchange Servers and/or SQL Servers?	Microsoft® System Center Data Protection Manager 2007, page 26
B An embedded application in need of a backend database?	Microsoft® SQL Server® 2008 for Embedded Systems, page 28

Microsoft

Windows® Unified Data Storage Server 2003 and Windows® Storage Server 2003 R2
www.microsoft.com/storage

Windows® Unified Data Storage Server 2003 (WUDSS) is an extension of the Windows® Storage Server 2003 product line and includes new features such as the Microsoft® iSCSI Software Target technology, a revised storage server setup experience, new integrated share and storage management snap-ins, among many other new and enhanced features.

Windows Storage Server 2003 R2 is a dedicated file and print server operating system based on Windows Server 2003 R2 that is designed for dependability and provides exceptional value in networked storage. Windows Unified Data Storage Server 2003 is built on Windows Storage Server 2003 R2, integrates seamlessly with existing infrastructures, supports heterogeneous file serving as well as backup and replication of stored data.

The Microsoft iSCSI Software Target available in Windows Unified Data Storage Server 2003 adds iSCSI target capability to storage servers, enabling you to combine file, print, and block storage services on a single platform. Microsoft iSCSI Software Target wizards give you the ability to easily create and manage iSCSI targets, create and manage disks for storage, and implement backup and recovery support using snapshots.

Windows Unified Data Storage Server 2003 also includes advanced availability features such as replication and server clustering. Because Windows Unified Data Storage Server 2003 solutions are preconfigured, they can be deployed quickly, and the Microsoft Management Console-based user interface makes management easy. Windows Unified Data Storage Server 2003 integrates with existing infrastructures, so enterprises can make full use of commonly used network environments and standard management software, as well as integrate seamlessly with Active Directory. Windows Unified Data Storage Server 2003 includes new technologies to manage a variety of file-and-print-related activities and tasks in branch offices, including:

» Publishing files from centralized hubs to branch offices
» Replicating files from branch locations for backup, fault tolerance, or cross-publishing
» Efficiently managing printers, printer drivers, and print queues in branch offices
» Single instance storage to reduce storage capacity needs and simplify storage management
» Increase collaboration and consolidate storage with SharePoint Services

DEVICE TYPE EXAMPLES:
» File and print serving consolidation
» SAN gateway for file services
» Disk target for backup
» Miscellaneous storage server solutions with qualifying embedded application(s)

Note: Previous versions of Windows Storage Server 2003, including Windows Storage Server 2003 with Service Pack One (SP1), are also available for license. Please contact a Microsoft Authorized Embedded Distributor at (*http://www.microsoft.com/windowsserversystem/solutions/specializedservers/distributorsearch.aspx*) for details.

Windows® Unified Data Storage Server 2003 and
Windows® Storage Server 2003 R2
OEM LICENSABLE PRODUCTS

? DOES THE SERVER NEED TO MANAGE FILE AND BLOCK LEVEL DATA WITH THE MICROSOFT ISCSI SOFTWARE TARGET?

IF NO,

	EDITION	NOTES
? Will the server have only 1 CPU and 2 or fewer ATA disks and only 1 network connection?	Windows® Storage Server 2003 R2 Express Edition (1 CPU Version)	* 32-bit or 64-bit * up to 2 disk drives * 1 NIC only * no print service * no CALs required

IF NO,   IF YES,

	EDITION	NOTES
? Will the server have only 1 CPU and 4 or fewer ATA disk, and 2 or fewer network connections?	Windows® Storage Server 2003 R2 Workgroup Edition (1 CPU Version)	* 32-bit or 64-bit * no CALs * up to 4 disk drives required * up to 2 NICs * print service version available, up to 5 printers

IF NO,   IF YES,

	EDITION	NOTES
? Will the server be designed to participate in a Microsoft cluster?	Windows® Storage Server 2003 R2, Enterprise Edition (1-8 CPU)	* 32-bit or 64-bit * Microsoft * unlimited disk drives iSCSI * unlimited NICs Software * print service allowed Target * no CALS required optional

IF YES,

	EDITION	NOTES
	Windows® Storage Server 2003 R2, Standard Edition (1-4 CPU)	* 32-bit or 64-bit * Microsoft * unlimited disk drives iSCSI * unlimited NICs Software * print service allowed Target * no CALS required optional

IF NO,

IF YES,

	EDITION	NOTES
? Will the server be designed to participate in a Microsoft cluster?	Windows® Unified Data Storage Server 2003 Standard Edition (1-4 CPU)	* 32-bit or 64-bit * unlimited disk drives * unlimited NICs * print service allowed * no CALs required

IF NO,

	EDITION	NOTES
	Windows® Unified Data Storage Server 2003 Enterprise Edition (1-8 CPU)	* 32-bit or 64-bit * unlimited disk drives * unlimited NICs * print service allowed * no CALs required

IF YES,

Note: Previous versions of Windows Storage Server 2003 Standard, Windows Storage Server 2003 with Service Pack One (SP1) only are also available for license. Please contact a Microsoft Authorized Embedded Distributor at *http://www.microsoft.com/windowsserversystem/solutions/specializedservers/distributorsearch.aspx* for details.

BACKUP AND BACK-END PRODUCTS

? WHAT TYPE OF APPLICATION ARE YOU PLANNING TO PROVIDE ON YOUR SERVER PRODUCT?

	EDITION
A A server with an application to back up other Windows Servers, Exchange Servers and/or SQL Servers?	Microsoft® System Center Data Protection Manager 2007, page 26.
B An embedded application in need of a backend database?	Microsoft® SQL Server® 2008 for Embedded Systems, page 28.

Windows Server 2008

Windows® Server 2008 For Embedded Systems – Essentials
www.microsoft.com/server

Windows Server® 2008 for Embedded Systems Essentials is a new SKU ideal for dedicated server solutions that provides networking or security services. Windows Server Essentials replaces Windows Server® 2003 for Embedded Systems with Server Appliance Software.

Essentials is a lower cost offering than Windows Server 2008 for Embedded Systems because the licensing restricts server functionality to specific scenarios that typically do not involve providing services to end-users (e.g., file services, print services, writeable domain controllers, etc.). Examples of dedicated server functionality that would be appropriate for Windows Server 2008 for Embedded Systems Essentials include an anti-virus server, e-mail filtering server, network traffic monitoring server, or custom embedded-server applications that do not provide end-user services. Because services are not provided to end-users, Essentials does not require the purchase of client-access licenses for the server functionality.

Like all Windows Server 2008 for Embedded Systems offerings, Essentials is based on the same core software as the general purpose versions of Windows Server 2008 and comes in both Standard and Enterprise SKUs. OEMs that use Essentials can build dedicated server appliances that leverage Windows Server 2008's smaller footprint, new Hyper-V™ virtualization technology for building multi-function appliances, and new management and security technologies such as Windows® PowerShell and BitLocker.

Note: Previous versions of Windows Server for Embedded Systems, including Windows Server 2003 for Embedded Systems, are also available for license. Please contact a Microsoft Authorized Embedded Distributor at *http://www.microsoft.com/windowsserversystem/solutions/specializedservers/distributorsearch.aspx* for details.

Windows® Server 2008 For Embedded Systems – Essentials
OEM LICENSABLE PRODUCTS

? **DOES THE SERVER REQUIRE VIRTUALIZATION?**

	EDITION	NOTES
IF YES,	Windows Server® 2008 for Embedded Systems Essentials Enterprise (1-8 CPU)	∗ 32-bit or 64-bit ∗ 25 CALs ∗ Supports Clustering ∗ Up to 4 Windows virtual partitions
IF NO,	Windows Server® 2008 for Embedded Systems Essentials Standard (1-4 CPU)	∗ 32-bit or 64-bit ∗ 5 CALs ∗ add'l CALs available ∗ 1 Windows virtual partition
IF YES,	Windows Server® 2008 without Hyper-V for Embedded Systems Essentials Enterprise (1-8 CPU)	∗ 32-bit or 64-bit ∗ 25 CALs ∗ Up to 4 Windows virtual partitions
IF NO,	Windows Server® 2008 without Hyper-V for Embedded Systems Essentials Standard (1-4 CPU)	∗ 32-bit or 64-bit ∗ 5 CALs ∗ add'l CALs available ∗ 1 Windows virtual partition

Note: Previous versions of Windows Server 2003 R2 for Embedded Systems with the Server Appliance Software 3.1 and Windows Server 2003 for Embedded Systems with Server Appliance Software 3.0 are also available for license. Please contact a Microsoft Authorized Embedded Distributor at
http://www.microsoft.com/windowsserversystem/solutions/specializedservers/distributorsearch.aspx for details.

BACKUP AND BACK-END PRODUCTS

? **WHAT TYPE OF APPLICATION ARE YOU PLANNING TO PROVIDE ON YOUR SERVER PRODUCT?**

	EDITION
A A server with an application to back up other Windows Servers, Exchange Servers and/or SQL Servers?	Microsoft® System Center Data Protection Manager 2007, page 26.
B An embedded application in need of a backend database?	Microsoft® SQL Server® 2008 for Embedded Systems, page 28.

Microsoft

MICROSOFT® SERVER WITH EMBEDDED LICENSING PRODUCT GUIDE
To find the latest information on Server with Embedded Licensing Products, visit www.microsoft.com/specializedservers

Windows Server® 2008 For Embedded Systems – Telecommunications
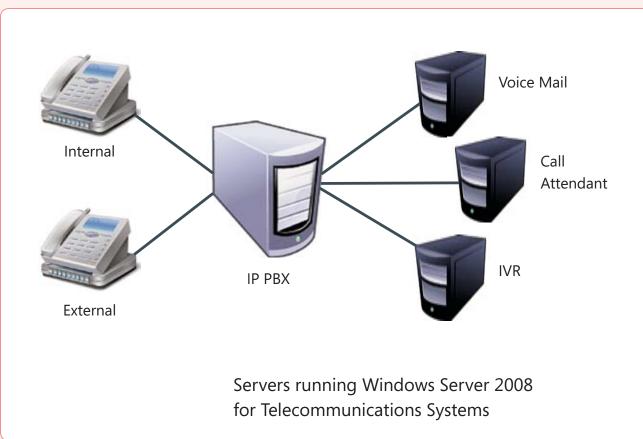*www.microsoft.com/server*

Microsoft offers a special OEM version of Windows Server® 2008 to provide a server operating system platform that meets the application-specific needs of the telecommunications market. With Windows Server® 2008 for Embedded Systems – Telecommunications, OEMs can leverage the stability, reliability and new functionality of Windows Server 2008 to build versatile, easily manageable, and dependable telecommunications solutions at significantly lower royalty rates than a general purpose server.

Windows Server 2008 for Embedded Systems – Telecommunications includes the same software or technologies included in Windows Server 2008 for Embedded Systems, including a smaller footprint, virtualization and new management and security technologies. Windows Server 2008 – Telecommunications continues to offer the core benefits of the Windows operating system including familiarity of the developer environment, interoperability with other Windows-based servers, and integration with a rich set of server applications such as Microsoft® SQL Server® and Microsoft® Exchange Server.

DEVICE TYPE EXAMPLES:
» PBX server
» Call center server
» IVR server
» Teleconferencing server
» Miscellaneous telecommunication server solutions with qualifying embedded application(s)

TELECOMMUNICATIONS SYSTEM EXAMPLE

Voice Mail

Internal

Call
Attendant

IVR

IP PBX

External

Servers running Windows Server 2008
for Telecommunications Systems

Note: Previous version of Windows Server for Embedded Systems, including Windows Server 2003 for Embedded Systems, are also available for license. Please contact a Microsoft Authorized Embedded Distributor at *http://www.microsoft.com/windowsserversystem/solutions/specializedservers/distributorsearch.aspx* for details.

Windows Server® 2008 For Embedded Systems – Telecommunications
OEM LICENSABLE PRODUCTS

? DOES THE SERVER REQUIRE VIRTUALIZATION?

	EDITION	NOTES
IF NO,	Windows Server® 2008 for Embedded Systems - Telecommunications Enterprise (1-8 CPU Version)	* 32-bit or 64-bit * 25 CALs * Supports Clustering * Up to 4 Windows virtual partitions
IF NO,	Windows Server® 2008 for Embedded Systems - Telecommunications Standard (1-8 CPU Version)	* 32-bit or 64-bit * 5 CALs * add'l CALs available * 1 Windows virtual partition
IF YES,	Windows Server® 2008 without HyperV for Embedded Systems - Telecommuncations Enterprise (1-8 CPU Version)	* 32-bit or 64-bit * 25 CALs * Supports Clustering * Up to 4 Windows virtual partitions
IF YES,	Windows Server® 2008 without HyperV for Embedded Systems - Telecommunication Standard (1-4 CPU Version)	* 32-bit or 64-bit * 5 CALs * add'l CALs available * 1 Windows virtual partition

Note: Previous versions of Windows Server 2003 R2 for Telecommunications Systems with the Server Appliance Software 3.1 and Windows Server 2003 for Telecommunications Systems with Server Appliance Software 3.0 are also available for license. Please contact a Microsoft Authorized Embedded Distributor at *http://www.microsoft.com/windowsserversystem/solutions/specializedservers/distributorsearch.aspx* for details.

BACKUP AND BACK-END PRODUCTS

? WHAT TYPE OF APPLICATION ARE YOU PLANNING TO PROVIDE ON YOUR SERVER PRODUCT?

	EDITION
A A server with an application to back up other Windows Servers, Exchange Servers and/or SQL Servers?	Microsoft® System Center Data Protection Manager 2007, page 26.
B An embedded application in need of a backend database?	Microsoft® SQL Server® 2008 for Embedded Systems, page 28.

Microsoft®
Response Point™

Microsoft® Response Point™
www.microsoft.com/responsepoint

Microsoft® Response Point™ phone system software is designed specifically for small businesses with one to 50 employees. Response Point is easy to use and manage, and requires only a wired local area network (LAN) and one Windows® XP SP2 or Windows Vista® PC.

The user-friendly administrator software empowers an average PC user to set up a phone or make system changes in minutes, with just a few mouse clicks. The unique voice-enabled user interface instantly connects employees and customers with the people or information they need. Delivered on intuitive hardware, with support for both traditional phone service and Voice-over Internet Protocol (VoIP), Response Point offers an entire phone system in one affordable package—a smart choice for any small business.

RESPOND QUICKLY TO CUSTOMER NEEDS.
Automatically route calls to the right person, whether they're in the office or on the road. Employees don't have to wait by the phone. All callers receive the same VIP treatment, every time.

REACH CUSTOMERS AND COLLEAGUES EASILY—FROM ALMOST ANYWHERE.
Take and make customer calls away from the office. Calls can be automatically routed on VoIP line, helping avoid exorbitant long-distance rates.

ADD NEW PHONES AND USERS QUICKLY.
An average PC user can add and manage up to 50 users—with no special phone training or additional license fees.

RESPONSE POINT SYSTEM REQUIREMENTS INCLUDE:
REQUIRED:
» A wired local area network (LAN)
» One computer running one of the following system programs:
   • Windows® XP Professional or Home Edition SP2 (32-bit)
   • Windows Vista® (32-bit)
   • Windows Server® 2003 R2 SP2 (32-bit)
   • Windows® Small Business Server 2003 R2 (32-bit)
RECOMMENDED:
» Internet access
» Access to an SMTP mail server
» Office Outlook® 2003 or Office Outlook® 2007

In summary, Response Point allows small-business customers to quickly deploy a full-featured telephone system. While some small businesses can simply plug in the hardware and configure their systems with relatively little effort, many will find it beneficial to partner with a VAR that can carefully assess their environment and plan their Response Point system deployment. With an investment in proper planning, professional deployment, and follow-up maintenance, a Response Point solution can provide cost-effective and full-featured telephony services in a small-business environment.

For information on how to license and build a Telephony System running Microsoft Response Point, send an email to: *mspecserv@microsoft.com*.

Microsoft®
Internet Security &
Acceleration Server 2006
Enterprise Edition

Windows Server® 2003 R2 For Embedded Systems with Internet Security and Acceleration Server 2006
www.microsoft.com/isaserver

Microsoft® Internet Security and Acceleration (ISA) Server 2006 is the integrated edge security gateway that helps protect IT environments from Internet-based threats while providing users with fast and secure remote access to applications and data. ISA Server 2006 is an advanced firewall, VPN, and Web-caching solution that enables customers to improve network security and performance.

FEATURES OF ISA SERVER 2006 INCLUDE:
» Secure Application Publishing: enables organizations to make their Exchange Server, SharePoint® Portal Server 2003, and other Web application servers accessible in a secure manner to remote users outside the corporate network.
» Windows® Branch Office: organizations can connect to and secure their branch offices, while efficiently utilizing network bandwidth.
» Web Access Protection: helps organizations protect their environments from internally and externally originating Internet-based threats.

ISA Server 2006 provides advanced protection, ease of use, and fast, secure access for all types of networks. ISA Server 2006 is particularly well suited to protect Microsoft applications and services, such as Microsoft Office, Office Outlook® Web Access 2003, SharePoint Portal Server 2003, Internet Information Services (IIS), Routing and Remote Access Services, Active Directory, and many other Microsoft applications, servers, and services.

Microsoft licenses a special version of ISA Server 2006 to OEMs building dedicated servers and server appliances that provide IT security or Web-performance services. The embedded version of ISA Server 2006 is licensed together with a Windows Server 2003 for Embedded Systems (*http://www.microsoft.com/windowsserver2003/default.mspx*) operating system, packaged together as a server platform.

Windows Server 2003 R2 for Embedded Systems with ISA Server 2006 is based on the same software as the generally available, retail versions of Windows Server 2003 and ISA Server 2006. The main difference is that the software must be used on dedicated servers or server appliances. In addition, the embedded version of ISA Server 2006 comes with special hardening tools to help OEMs optimize the security of the ISA Server 2006 application software and the Windows Server 2003 operating system. Both the Windows Server 2003 operating system and ISA Server 2006 software must be preinstalled on the dedicated server or server appliance solution.

MICROSOFT® SERVER WITH EMBEDDED LICENSING PRODUCT GUIDE
To find the latest information on Server with Embedded Licensing Products, visit www.microsoft.com/specializedservers
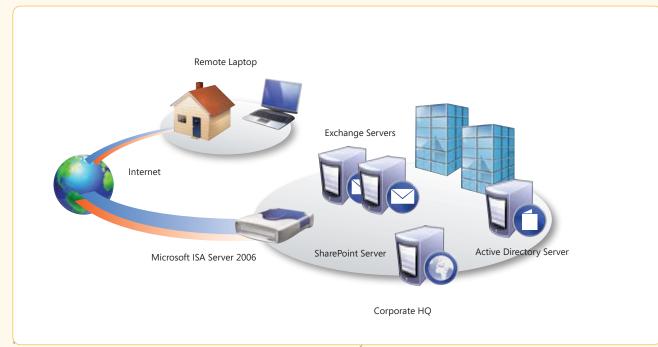
Windows Server® 2003 R2 For Embedded Systems with Internet Security and Acceleration Server 2006

www.microsoft.com/isaserver

DEVICE TYPE EXAMPLES:

» VPN server
» Firewall server
» Web-caching server
» SSL VPN
» Antivirus

EXAMPLE OF SECURE APPLICATION PUBLISHING WITH MICROSOFT ISA SERVER 2006

Acceleration Server 2004 available for license. Please contact a Microsoft Authorized Embedded Distributor at
http://www.microsoft.com/windowsserversystem/solutions/specializedservers/distributorsearch.aspx for details.

Intelligent Application Gateway 2007

Microsoft® Intelligent Application Gateway 2007
www.microsoft.com/iag

Microsoft® Intelligent Application Gateway (IAG) 2007 is an enterprise-class SSL VPN (secure socket layer virtual private network) that enables secure, remote access to Web applications and network-based resources for employees, partners, and customers from all managed and unmanaged devices. IAG combines SSL-based access with application optimization technologies, a Web application firewall, and endpoint security management for easy, flexible, secure access and strong policy control.

APPLICATION INTELLIGENCE	ENDPOINT AND ACCESS SECURITY	EASY CUSTOMIZATION
IAG 2007 is designed to optimize performance, access, and security of applications by providing deep intelligence of the differences and unique requirements of various applications. Policies can be tailored to the specific usage needs and security requirements.	IAG 2007 includes a robust and comprehensive endpoint health security detection mechanism and cache cleanup tailored to the specific applications and environments used for access.	With IAG 2007, policies and the user interface are highly flexible and customizable to ensure a fast easy experience for all users, including employees, partners, vendors or customers, while helping ensure security and policy control.

IAG integrates a complete SSL VPN, web application firewall, and robust endpoint security management engine that provide superior access control, authorization, and content inspection for a wide variety of line-of-business applications. Together, these technologies provide mobile and remote workers with easy and flexible secure access from a broad range of devices and locations including kiosks, PCs, and mobile devices. IAG also enables IT administrators to enforce compliance with application and information usage guidelines through a customized remote access policy based on device, user, application, or other business criteria.

COMMON QUESTION: WHAT IS THE DIFFERENCE BETWEEN ISA AND IAG?
In simple terms, Microsoft® Internet and Acceleration Server (ISA) is first about edge protection and second about secure access. IAG is all about secure remote access of nearly any corporate resource from any location or device.

In more detailed terms, ISA Server is an integrated edge protection solution, with network- and application-layer firewall, VPN, and Web cache solution for comprehensive protection of both outbound and inbound network access, branch office connectivity, and application publishing. ISA Server is ideal for publishing a Web application such as SharePoint, providing secure Internet access, or enabling better branch office access. It is easy to deploy and manage. ISA is available in both software-only (Standard and Enterprise Editions) and as a pre-configured appliance through OEM partners.

IAG is a highly customizable SSL VPN with strong policy control, endpoint security detection and management, and application optimization. IAG is ideal for companies wanting to extend either Web-based or network applications to a broad range of users, from mobile employees to partners to customers and others. Its granular policies and security architecture ensure only authenticated and authorized users and devices are able to access applications. IAG is available only as a pre-configured appliance through Microsoft's OEM partners.

Windows® Server 2003 R2 For Embedded Systems with Internet Security and Acceleration Server 2006 and Microsoft® Intelligent Application Gateway 2007

OEM LICENSABLE PRODUCTS

	EDITION	NOTES
? Will the server be designed for SSL VPN only? **IF NO,** **IF YES,**	Windows Server® 2003 R2 Standard for Embedded Systems and Internet Acceleration Server 2006 with Internet Application Gateway	* SSL VPN only and up to 1000 IPSEC connections only * CALs required but not included * 32-bit only
? Will the server be designed for firewall only? **IF NO,** **IF YES,**	Windows Server® 2003 R2, for Embedded Systems Standard Edition and Microsoft Internet and Acceleration Server 2006 Standard Edition (1 CPU Version) (Firewall Only)	* 1 CPU * firewall only * up to 1000 VPN connections * no CALs required * 32-bit only
? Will the server require Clustering/high availability or more than 4000 VPN connections? **IF YES AND IF 4000,**	Windows Server® 2003 R2 Standard Edition and Microsoft Internet and Acceleration Server 2006 Enterprise Edition (1CPU Version)	* 1 CPU * up to 4000 VPN connections * no CALs required * 32-bit only
IF NO AND IF 100,	Windows Server® 2003 R2, Standard Edition and Microsoft Internet and Acceleration Server 2006 Workgroup Edition (1 CPU Version)	* 1 CPU * up to 100 VPN connections * no CALs required * 32-bit only
IF NO AND IF 1000,	Windows Server® 2003 R2, Standard Edition and Microsoft Internet and Acceleration Server 2006 Standard Edition (1 CPU Version)	* 1 CPU * up to 1000 VPN connections * no CALs required * 32-bit only

Note: Previous versions of Windows Server 2003 for Embedded Systems with Microsoft Internet and Acceleration Server 2004 available for license. Please contact a Microsoft Authorized Embedded Distributor at *http://www.microsoft.com/windowsserversystem/solutions/specializedservers/distributorsearch.aspx* for details.

BACKUP AND BACK-END PRODUCTS

? **WHAT TYPE OF APPLICATION ARE YOU PLANNING TO PROVIDE ON YOUR SERVER PRODUCT?**

	EDITION
A A server with an application to back up other Windows Servers, Exchange Servers and/or SQL Servers?	Microsoft® System Center Data Protection Manager 2007, page 26
B An embedded application in need of a backend database?	Microsoft® SQL Server® 2008 for Embedded Systems, page 28

Windows® Home Server

www.microsoft.com/windowshomeserver

Windows® Home Server is a hardware and software solution that enables families with multiple PCs to easily share their digital experiences. Offering the reliability and familiarity of other Microsoft technologies, Windows Home Server helps families organize, access, and protect their treasured digital images, music, video, and personal documents.

WITH WINDOWS HOME SERVER, YOUR CUSTOMERS CAN:
» Protect files and PCs with automatic backup and a simple restore process.
» Connect to documents, photos, music, and other files from virtually anywhere.
» Organize documents, photos, music and other files in a shared location.

FEATURES AT A GLANCE
» Automatic daily backups of your home PCs
» Restore lost files or an entire PC
» Access all your stuff on the home server from your networked PCs
» Share photos and home videos through a personalized Web address[1]
» Organize your most important information in one central place
» Expandable storage space for future use
» Innovative third-party applications

WINDOWS® HOME SERVER ALLOWS YOU TO:

PROTECT
Windows Home Server provides automatic daily backups for home PCs, so files and PCs can be easily restored. Plus, PC health monitoring lets families see the condition of home computers.

CONNECT
Every member of the family can access what they need on the home server from their networked PCs. People can even share information with faraway friends and family, or access their own data when they're away from home.[1]

ORGANIZE
Family photos, videos, music, and other important documents stay together in one central place. Folders by subject or topic keep the whole family organized and up-to-date.

GROW
As storage needs increase, families can simply connect a new hard drive to Windows Home Server. And with developers working on innovative add-ins for home automation, home webcams, and security feature solutions, Windows Home Server will be part of the family today—and tomorrow.

[1] You may need to add services from your broadband provider to use Windows Home Server's remote access features. For example, you will need certain "ports" to be open to use these features. Some broadband providers block certain ports for customers on some service plans. Also, some broadband providers' terms of service may limit or prohibit setting up and running of "servers" on their networks by some customers on some service plans. Make sure that your use of Windows Home Server features follows your broadband provider's terms of service. Please contact your broadband provider if you have questions about their terms of service.

Windows® Home Server
www.microsoft.com/windowshomeserver

EARN MORE WITH WINDOWS HOME SERVER
Besides providing a great way to store, share, and protect digital content, Windows Home Server also signifies a potential increase in revenue for your business. Like other OEM-configured servers and PCs, Windows Home Server offers a number of upsell and cross-sell opportunities.

COMPONENT	MINIMUM REQUIREMENT	RECOMMENDED
Processor	1 GHz Pentium 3 (or equivalent)	Pentium 4 or x64
RAM	512 MB	512 MB ECC memory
Hard drive[1]	80 GB (ATA, SATA, or SCSI) primary drive; any number of additional hard drives with more than 8 GB of capacity	300 GB primary drive; two or more internal (SATA or SCSI) drives
Network interface card[2]	100 Mbps	1 Gbps

[1] The largest hard drive should be configured as the primary (system) drive.
[2] From *http://www.windowsservercatalog.com*.

Windows® Home Server
OEM LICENSABLE PRODUCTS

	EDITION	NOTES
? Are you looking to build a home server appliance eligible for the Windows Home Server logo program?	Windows® Home Server with Embedded Licensing	∗ Includes 10 CALs
	Please visit the OEM Partner Center for information on how to license and build general purpose servers.	

Note: Microsoft Windows Home Server is available for license. Please contact a Microsoft Authorized Embedded Distributor at *http://www.microsoft.com/windowsserversystem/solutions/specializedservers/distributorsearch.aspx* for details.

BACKUP AND BACK-END PRODUCTS

? WHAT TYPE OF APPLICATION ARE YOU PLANNING TO PROVIDE ON YOUR SERVER PRODUCT?

	EDITION
A A server with an application to back up other Windows Servers, Exchange Servers and/or SQL Servers?	Microsoft® System Center Data Protection Manager 2007, page 26
B An embedded application in need of a back-end database?	Microsoft® SQL Server® 2008 for Embedded Systems, page 28

Windows® Home Server
WINDOWS HOME SERVER PARTNER Q&A

PRODUCT BENEFITS AND CAPABILITIES

Q: WHAT IS WINDOWS HOME SERVER?
A: Windows Home Server is a new product that helps families with multiple PCs centralize and connect their digital experiences, providing a familiar, easy and reliable way to store, share, and automatically protect what is most important. With Windows Home Server, people can easily keep and organize their documents, images, music, and movies in one location that is automatically backed up to help ensure that digital content is saved.

Q: WHAT ARE THE PRIMARY BENEFITS OF WINDOWS HOME SERVER?
A: Windows Home Server simplifies the way you protect, connect, organize and grow your family's valuable digital content and media , including documents, photos, videos and music.

Q: HOW MANY PCS CAN BE USED WITH WINDOWS HOME SERVER?
A: Up to 10 PCs in the home can use the Windows Home Server Connector software to be automatically backed up and to access shared folders.

Q: IS WINDOWS HOME SERVER BASED ON WINDOWS SERVER 2003?
A: Windows Server 2003 R2 provided the foundation for Windows Home Server. A consumer-friendly user interface, along with innovative technologies such as multi-PC backup, Drive Extender, and much more were developed specifically to create Windows Home Server.

Q: WHAT LANGUAGE(S) IS WINDOWS HOME SERVER AVAILABLE IN?
A: Windows Home Server is available in English, French, German and Spanish.

Q: HOW DOES WINDOWS HOME SERVER DIFFER FROM WINDOWS XP MEDIA CENTER EDITION 2005?
A: Windows Home Server and Windows Media Center Edition complement each other. Media Center was designed to run a personal computer for media acquisition and management (e.g. TV, music, photos, etc.) in addition to personal productivity. Windows Home Server was designed to make managing a home network, with Windows Media Center PCs and other PCs, easier and more automatic by acting as a centralized location for file organization, and providing automated backup for all of the PCs in house.

Q: WHAT IS THE MARKET OPPORTUNITY FOR WINDOWS HOME SERVER?
A: More than 14 million households in the U.S. have a broadband connection and use more than two personal computers; globally that number is more than 40 million. Today's families create and accumulate astonishing amounts of digital information. Over 182 billion digital photos were taken in 2005, for example, and one in three homes in the U.S. has a digital media player. Consumer devices with large hard drives, such as video cameras and digital music players, are becoming prevalent, as well. As digital experiences and media become more and more central to day-to-day life, tremendous demand grows for a simple, reliable solution to help manage, share and protect that content. With Windows Home Server, Microsoft is addressing that previously unmet need in the consumer marketplace.

Q: HOW DOES WINDOWS HOME SERVER DIFFER FROM MICROSOFT SMALL BUSINESS SERVER?
A: The value proposition and the target market for Windows Home Server is families with multiple PCs and broadband Internet access*. Windows Home Server is designed to meet the needs of consumers and supports up to ten users. Home-based businesses may also find Windows Home Server attractive - many home-based businesses buy technology to share across both personal and professional needs. Windows Small Business Server is intended for small businesses of up to 75 users and includes Microsoft Exchange Server.

Windows® Home Server
WINDOWS HOME SERVER PARTNER Q&A—CONTINUED

PARTNERS

Q: WHAT COMPONENT MANUFACTURERS OFFER WINDOWS HOME SERVER HARDWARE?
A: A number of original device manufacturers including AMD, Gigabyte, Intel, Inventec and Quanta have created reference design hardware providing a broad selection of form factors and configurations.

Q: WHEN WILL MICROSOFT RELEASE WINDOWS HOME SERVER?
A: Windows Home Server released to manufacturing a t the end of July, 2007.

Q: WHAT ARE THE OEM LICENSING OPTIONS FOR WINDOWS HOME SERVER?
A: Windows Home Server is available to OEMs via Embedded Distributors and via the System Builder channel. The Embedded license requires OEMs' Windows Home Server configurations to adhere to specific system requirements. Windows Home Server was listed on distributor price lists as of August 1, 2007.

Q: WHAT ARE THE WINDOWS HOME SERVER SYSTEM REQUIREMENTS FOR OEMS?
A: To qualify for the Windows Home Server logo program OEMs need to conform to a set of requirements (additional information on requirements can be found here: (*http://www.microsoft.com/whdc/winlogo/VistaLogofaq.mspx*) that include providing a "headless" device with no keyboard, mouse or video connectors, and no CD or DVD drives. We require four USB ports for external storage additions, and network health status indicator lights. We also require low sound emission. Our intention is to ensure OEMs provide customers with a simple, elegant hardware solution that matches the Windows Home Server feature set.

Q: IS THERE A CERTIFICATION PROGRAM FOR HARDWARE AND/OR SOFTWARE THAT WORKS WITH WINDOWS HOME SERVER?
A: There is a logo program for OEMs developing Windows Home Server hardware. At this time there is no formal certification program for applications that work with Windows Home Server.

Q: HOW DO I BECOME A WINDOWS HOME SERVER PARTNER?
A: The Windows Home Server software development kit (SKD) (*http://msdn.microsoft.com/en-us/library/bb425866.aspx*) provides information on developing your application and installation requirements. To become a Windows Home Server partner, send an email to *WHSISV@microsoft.com* requesting further information.

Q: WHO CAN I CONTACT WITH TECHNICAL SUPPORT OR INSTALLATION ISSUES?
A: Solutions to some technical support issues can be found at *http://connect.microsoft.com/WindowsHomeServer* and *http://forums.microsoft.com/WindowsHomeServer*. Additionally, technical support is available as part of a Premiere Support subscription.
For more information on Premiere Support check out
http://www.microsoft.com/services/microsoftservices/srv_prem.mspx or send email to one of the following:

For OEMs: *oemfs@microsoft.com*

* For ISVs: *Pisvsale@microsoft.com*

Q: HOW CAN I GET AN EVALUATION VERSION OF WINDOWS HOME SERVER?
A: Evaluation copies of Windows Home Server can be ordered from *www.microsoft.com/windowshomeserver*.

MICROSOFT® SERVER WITH EMBEDDED LICENSING PRODUCT GUIDE
To find the latest information on Server with Embedded Licensing Products, visit www.microsoft.com/specializedservers

Windows® Home Server
WINDOWS HOME SERVER PARTNER Q&A—CONTINUED

DEVELOPING FOR WINDOWS HOME SERVER

Q: IS THERE A SOFTWARE DEVELOPMENT KIT FOR WINDOWS HOME SERVER?
A: Microsoft has released software developer kit (SDK) (*http://msdn.microsoft.com/en-us/library/bb425866.aspx*) documentation for Windows Home Server. The SDK documentation is available at no charge on the Microsoft Developer Network.

Q: IN WHAT AREAS OF THE PRODUCT DO YOU ALLOW FOR EXTENSIBILITY?
A: Via our SDK we enable the following areas of extensibility: adding console tabs, settings pages and both public and authenticated web sites. Please review the SDK for full details.

Q: WINDOWS HOME SERVER IS DESGINED TO BE HEADLESS AND DOES NOT HAVE A MONITOR, KEYBOARD OR MOUSE CONNECTED. HOW DO CUSTOMERS INSTALL ADDITIONAL APPLICATIONS?
A: Applications can be installed via our Add-In functionality. Add-ins must be able to be installed "silently" with no additional input from the user via a MSI file using WIX. Further information on creating add-in installers can be found in our SDK.

Q: WHAT VERSION OF THE .NET FRAMEWORK IS INSTALLED ON THE SERVER BY DEFAULT?
A: Version 2.0 of the .Net Framework is installed by default. There are no known issues with installing version 3.0 of the .Net Framework on Windows Home Server.

Q: WHAT MEDIA SHARING SOFTWARE DOES WINDOWS HOME SERVER USE FOR UPNP MEDIA SHARING?
A: We have used Windows Media Connect version 2.0 to enable media streaming.

Q: HOW CAN I GET MY PRODUCT LISTED ON WINDOWS MARKETPLACE?
A: To get your commercial application for Windows Home Server listed on Windows Marketplace you will first need an account with Digital River. Send an email to *WHSISV@microsoft.com* for additional details.

Q: I'VE DEVELOPED A FREE WINDOWS HOME SERVER ADD-IN, WHERE CAN I GET IT LISTED?
A: The Microsoft forum for Windows Home Server is a central place for discussion about the product. Many developers are posting information and links to their software add-in.

RESOURCES

Q: WHAT TECHNICAL RESOURCES ARE AVAILABLE?
A: Microsoft has created an open web forum at *http://forums.microsoft.com/WindowsHomeServer*. This forum provides a central place for feedback and discussion. The Windows Home Server team and other participants will answer questions and provide insights on the forum.

ADDITIONAL RESOURCES
* Windows Home Server blog
  http://blogs.technet.com/homeserver/
* Windows Home Server Product Site
  http://www.microsoft.com/windows/products/winfamily/windowshomeserver/default.mspx
* Windows Home Server Community Forum
  http://forums.microsoft.com/WindowsHomeServer/default.aspx?siteid=50

Q: HOW DO I CONTACT THE WINDOWS HOME SERVER TEAM?
A: To contact the Windows Home Server team, email *WHSISV@microsoft.com*

DISCLAIMER: * Use of Windows Home Server's remote access features may require additional services from a consumer's broadband provider, such as access to certain "ports" that some providers may block for customers on some service plans. Customers should contact their broadband providers if they have questions about their services or service terms.

Windows Server® 2003
Appliance Edition

Microsoft® Branch Office Appliance
www.microsoft.com/branchoffice

Microsoft recognizes that organizations with branch offices spend too much time and money managing IT systems remotely. The Microsoft® Branch Office solution helps to simplify delivery of services to the branch office. It offers the distributed enterprise an easy-to-manage, security-enhanced, high-performance infrastructure that delivers cost-effective IT services across the WAN. Specifically, Microsoft Windows Branch Office Appliance solutions incorporate Microsoft® Windows Server® 2003 R2 (*http://www.microsoft.com/windowsserver2003/default.mspx*) and Microsoft® ISA Server 2006 (*http://www.microsoft.com/isaserver/default.mspx*) and allows for the export of network services such as Active Directory, Domain Name Service (DNS), Windows Internet Name Service (WINS), Dynamic Host Control Protocol (DHCP), etc.–functionalities not permitted in the ISA Server-only SKUs.

BENEFITS OF THE BRANCH OFFICE APPLIANCE SOLUTION INCLUDE:
» Operational efficiency and reduced cost
» Security and reliability
» Productive workers
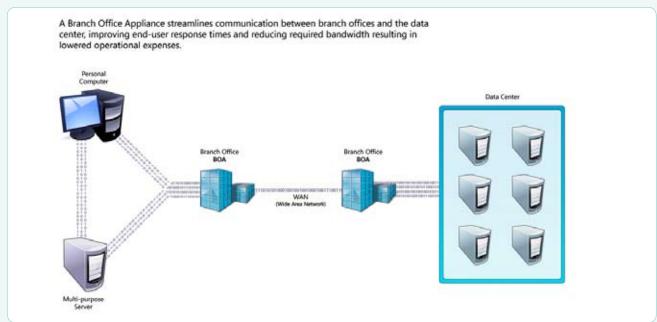
Windows Server 2003 R2 (*http://www.microsoft.com/windowsserver2003/default.mspx*) provides the underlying technology that can be used to simplify integration of branch office servers into the IT environment. With Windows Server 2003 R2, companies can maintain the performance, availability, and productivity benefits of a local branch office server while avoiding the negative issues that are typically associated with branch office environments, such as limited connectivity and management overhead.

WINDOWS SERVER 2003 R2 HELPS TO:
» Keep the business running smoothly by utilizing faster data replication
» Manage infrastructure more easily with centralized management tools
» Reduce administrative costs by minimizing the need for local backup

Microsoft Windows Branch Office Appliance is an integrated platform delivering essential services for operating and protecting an isolated network in branch offices tethered by WAN or the Internet to corporate data centers. OEMs can quickly develop and deploy this solution as an addition to their server or dedicated server appliance portfolio, broadening their offerings and providing a more complete solution set to their customers.

BRANCH OFFICE APPLIANCE OVERVIEW

A Branch Office Appliance streamlines communication between branch offices and the data center, improving end-user response times and reducing required bandwidth resulting in lowered operational expenses.

Microsoft® Branch Office Appliance
OEM LICENSABLE PRODUCTS

	EDITION	NOTES
? Will the server be used to provide VPN or firewall functionality?		
IF NO,	Microsoft® Branch Office Appliances 2003 R2 Standard (1CPU, 5 CAL Version)	* 32-bit only * 5 CALs included * add'l CALs available
IF YES,	Microsoft® Branch Office Appliances 2003 R2 Enterprise (1CPU, 5 CAL Version)	* 32-bit only * 5 CALs included * add'l CALs available

Note: Previous versions of Windows Branch Office Appliances 2003 available for license. Please contact a Microsoft Authorized Embedded Distributor at
http://www.microsoft.com/windowsserversystem/solutions/specializedservers/distributorsearch.aspx for details.

BACKUP AND BACK-END PRODUCTS

? **WHAT TYPE OF APPLICATION ARE YOU PLANNING TO PROVIDE ON YOUR SERVER PRODUCT?**

	EDITION
A A server with an application to back up other Windows Servers, Exchange Servers and/or SQL Servers?	Microsoft® System Center Data Protection Manager 2007, page 26
B An embedded application in need of a back-end database?	Microsoft® SQL Server® 2008 for Embedded Systems, page 28

Microsoft®
System Center
Data Protection Manager 2007

Microsoft® System Center Data Protection Manager 2007
www.microsoft.com/dpm

Microsoft® System Center Data Protection Manager (DPM) 2007 sets a new standard for Windows® backup and recovery—delivering continuous data protection for Microsoft application and file servers to a seamlessly integrated secondary disk and tape solution. DPM 2007 enables rapid and reliable recovery through advanced technology for enterprises of all sizes.
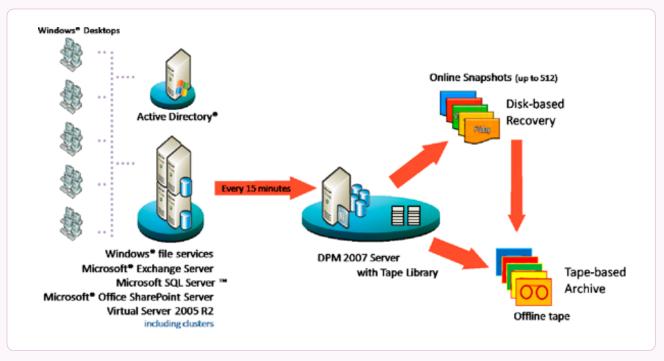
Focused on the primary Microsoft server workloads, DPM 2007 was specifically built to protect and recover data for Microsoft® SQL Server®, Microsoft® Exchange Server, SharePoint™ Portal Server 2003, Microsoft® Virtual Server, as well as Windows file services. In addition, DPM 2007 blends the best aspects of continuous data protection (CDP) with traditional tape backup.

Data Protection Manager 2007 is designed for use with Windows Server® 2008 for Embedded Systems (pages 4–5), Windows® Storage Server 2003 R2 (page 9), or Windows® Unified Data Storage Server 2003 (page 9). Both the operating system and DPM 2007 software must be preinstalled on the dedicated server or server appliance solution. A run-time version of SQL Server is included with the license of DPM 2007. This SQL Server license is for use only with DPM 2007 and cannot be used as a stand-alone database or for other applications.

DEVICE TYPE EXAMPLES:
» Disk-based backup and recovery server
» Flexible byte-level replication server
» Tape integration server

TYPICAL DPM 2007 INSTALLATION

Microsoft® System Center Data Protection Manager 2007
OEM LICENSABLE PRODUCTS

? **WILL THE SERVER BE USED TO BACKUP SQL OR ECHANGE SERVERS?**

	EDITION	NOTES
IF NO,	Microsoft® System Center Data Protection Manager 2007 for Embedded Systems Standard (1 DPML)	* 1 server agent licenses included, add'l server agents available * run-time version of Microsoft® SQL Server® included
IF YES,	Microsoft® System Center Data Protection Manager 2007 for Embedded Systems Enterprise (1 DPML)	* 1 server agent licenses included, add'l server agents available * run-time version of Microsoft® SQL Server® included

BACKUP AND BACK-END PRODUCTS

? **WHAT TYPE OF APPLICATION ARE YOU PLANNING TO PROVIDE ON YOUR SERVER PRODUCT?**

	EDITION
A An embedded application in need of a back-end database?	Microsoft® SQL Server® 2008 for Embedded Systems, page 28

Microsoft®

SQL Server® 2008

Microsoft® SQL Server® 2008 for Embedded Systems
www.microsoft.com/sql/2008

Microsoft® SQL Server® 2008 for Embedded Systems is an advanced database platform providing enterprise-class data management with integrated business intelligence tools. TheSQL Server 2008 database engine provides more secure, reliable storage for both relational and structured data, enabling easy to manage, highly available, and high-performance data applications. Additionally, Microsoft SQL Server 2008 combines Microsoft's best available technology for analysis, reporting, integration, and notification. Benchmarked for scalability, speed, and performance, SQL Server 2008 is an enterprise-class database product, providing core support for XML and Internet queries.

Building on the proven strengths of SQL Server 2005, SQL Server 2008 extends its security capabilities with the following enhancements:

TRANSPARENT DATA ENCRYPTION
SQL Server 2008 enables encryption of entire databases, data files, and log files, without the need for application changes. Encryption enables organizations to meet the demands of regulatory compliance and overall concern for data privacy. Some of the benefits of transparent data encryption include searching encrypted data using either range or fuzzy searches, more secure data from unauthorized users, and data encryption. These can be enabled without changing existing applications.

EXTERNAL KEY MANAGEMENT
SQL Server 2008 provides a comprehensive solution for encryption and key management. To meet the growing need for greater security of information within data centers, organizations have invested in vendors to manage security keys within the enterprise. Microsoft® SQL Server® 2008 provides excellent support for this need by supporting third-party key management and hardware security module (HSM) products.

ENHANCED AUDITING
SQL Server 2008 improves compliance and security by allowing you to audit activity on your data. Auditing can include information about when data has been read, in addition to any data modifications. Microsoft SQL Server 2008 has features such as enhanced configuration and management of audits in the server, which enable organizations to meet varied compliance needs. Microsoft SQL Server 2008 can also define audit specifications in each database, so audit configuration can be ported with databases. Filtering of audits to specific objects allows better performance in audit generation and flexibility in configuration.

MIcrosoft® SQL Server® 2008 for Embedded Systems
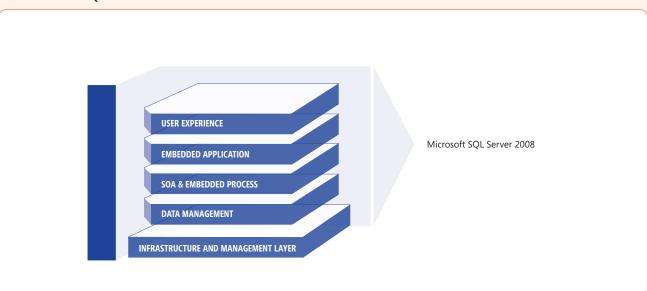*www.microsoft.com/sql/2008*

SQL Server 2008 for Embedded Systems is a run-time edition of SQL Server 2008 available to OEMs who want to use SQL Server 2008 as a database for embedded applications. Microsoft SQL Server 2008 for Embedded Systems is the same as the generally available, retail version of SQL Server 2008. The key difference is that SQL Server 2008 for Embedded Systems must be used as a database for a specified embedded application, where clients do not interact directly with the SQL Server database.

SQL Server 2008 for Embedded Systems is designed for use with Windows Server 2008 for Embedded Systems (pages 4–5). Both the operating system and SQL Server 2008 software must be preinstalled on a dedicated server or server appliance solution.

DEVICE TYPES:
» Document imaging database server
» Integrated voice messaging system database server
» Microsoft Windows Storage Server 2008 database server
» Miscellaneous database servers for qualifying embedded application(s)

MICROSOFT SQL SERVER 2008 DATABASE APPLICATION PLATFORM

USER EXPERIENCE

EMBEDDED APPLICATION

SOA & EMBEDDED PROCESS

DATA MANAGEMENT

INFRASTRUCTURE AND MANAGEMENT LAYER

Microsoft SQL Server 2008

Note: Previous versions of Microsoft SQL Server Runtime Edition for Embedded Systems, and Microsoft SQL Server 2000 for Embedded Systems are available for license. Please contact a Microsoft Authorized Embedded Distributor at (*http://www.microsoft.com/windowsserversystem/solutions/specializedservers/distributorsearch.aspx*) for details.

SQL Server® 2008 for Embedded Systems
OEM LICENSABLE PRODUCTS

	EDITION	NOTES
? Will the server need to support database mirroring, clustering, partitioning, parallel index operations, index views, and online indexing and restore?	Microsoft® SQL Server® 2008 Runtime Enterprise Edition	* 32-bit only or 64-bit versions * available per processor OR with CALs
IF NO, IF YES,		
? Will the server need to support database mirroring and clustering and have 4 or fewer processors?	Microsoft® SQL Server® 2008 Runtime Standard Edition Standard	* 32-bit or 64-bit versions * available per processor OR with CALs
IF NO, IF YES,		
? Will the server have 2 or fewer processors and use limited database functionality?	Microsoft® SQL Server® 2008 Runtime Workgroup Edition	* 32-bit only * available per processor OR with CALs

Note: Previous version of Microsoft SQL Server 2005 Runtime Edition for Embedded Systems, and Microsoft SQL Server 2000 for Embedded Systems available for license. Please contact a Microsoft Authorized Embedded Distributor at *http://www.microsoft.com/windowsserversystem/solutions/specializedservers/distributorsearch.aspx* for details.

BACKUP AND BACK-END PRODUCTS

? **WHAT TYPE OF APPLICATION ARE YOU PLANNING TO PROVIDE ON YOUR SERVER PRODUCT?**

	EDITION
A A server with an application to back up other Windows Servers, Exchange Servers and/or SQL Servers?	Microsoft® System Center Data Protection Manager 2007, page 26

Microsoft

Windows Server® 2008
www.microsoft.com/windowsserver2008

Note: The non-embedded, full version of Windows Server 2008 is not available through the Embedded Distribution channel. Information on how to license and build general purpose servers is available on the OEM Partner Center (OPC) (*http://www.microsoft.com/oem/enroll.mspx*) or by contacting your Microsoft Account Manager.

Windows Server® 2008 is the next generation of the Windows Server operating system that helps information technology (IT) professionals maximize control over their infrastructure while providing unprecedented availability and management capabilities, leading to a significantly more secure, reliable and robust server environment than ever before. Windows Server 2008 delivers new value to organizations by ensuring that all users, regardless of location, are able to get the full complement of services from the network. Windows Server 2008 also provides deep insight into the operating system and diagnostic capabilities to allow administrators to spend more time adding business value.

Windows Server 2008 builds on the success and strengths of the award-winning Windows® Server 2003 operating system and on the innovations delivered in Service Pack 1 and Windows Server 2003 R2. However, Windows Server 2008 is more than a refinement of predecessor operating systems. Windows Server 2008 is designed to provide organizations with the most productive platform for powering applications, networks, and Web services from the workgroup to the datacenter with exciting, valuable new functionality and powerful improvements to the base operating system. To check for availability of Windows Server 2008, please visit *www.microsoft.com/windowsserver/2008*.

WINDOWS SERVER 2008 HAS MADE ENHANCEMENTS IN THE FOLLOWING AREAS:

WEB
Windows Server 2008 gives the ability to deliver rich web-based experiences efficiently and effectively, with improved administration and diagnostics, development and application tools, and lower infrastructure costs..

- Simplified Web server management with Microsoft® Internet Information Services 7.0, which is a powerful Web platform for applications and services. This modular platform provides a simplified, task-based management interface, greater cross-site control, security enhancements, and integrated health management for Web services.
- Cross-site copy function easily allows Web site settings to be copied across multiple Web servers without additional configuration.
- Delegated administration of applications and sites so control can be given to different parts of the Web server to those who need it.

VIRTUALIZATION
With built-in server virtualization technology, Windows Server 2008 enables users to reduce costs, increase hardware utilization, optimize infrastructure, and improve server availability.

- Built-in virtualization to virtualize multiple operating systems—Windows, Linux and others—on a single server. With virtualization built into the operating system and with simpler, more flexible licensing policies, it's now easier to take advantage of all the benefits and cost savings of virtualization.
- Centralized application access and seamless integration of remotely published applications. Improvements also add the ability to connect to remote applications across firewalls and without the use of a VPN.
- New deployments options to provide the most suitable method for your environment.
- Interoperability with your existing environment.
- Robust and vibrant technical community to provide a rich experience throughout the product life cycle.

Windows Server® 2008
ENHANCEMENTS—CONTINUED:

SECURITY
Windows Server 2008 is the most secure Windows Server ever. Its hardened operating system and security innovations, including Network Access Protection, Federated Rights Management, and Read-Only Domain Controller, provides unprecedented levels of protection for each network, data, and business.

- Protection of the server with security innovations that reduce attack surface area of the kernel, resulting in a more robust and secure server environment.
- Network Access Protection that gives the power to isolate computers that don't comply with security policies set. The ability to enforce security requirements is a powerful means of protecting the network.
- Enhanced solutions for intelligent rules and policies creation to increase control and protection over networking functions, allowing a policy-driven network.
- Protection of data to ensure it can only be accessed by users with the correct security context, and to make it available when hardware failures occur.
- Protection against malicious software with User Account Control with a new authentication architecture.
- Increased control over user settings with Expanded Group Policy.

SOLID FOUNDATION FOR BUSINESS WORKLOADS
Windows Server 2008 is the most flexible and robust Windows Server operating system to date. With new technologies and features such as Server Core, PowerShell, Windows Deployment Services, and enhanced networking and clustering technologies, Windows Server 2008 provides the most versatile and reliable Windows platform for workload and application requirements.

- Increased dependability with advanced reliability enhancements to reduce loss of access, work, time, data, and control.
- Simplified management of IT infrastructure by using new tools that provide a one-stop interface for server configuration and monitoring, as well as the ability to automate routine tasks.
- Streamlined installation and management of Windows Server 2008 by installing only the roles and features needed. The customization of the server configuration simplifies ongoing maintenance by minimizing the attack surface area and reducing the need for software updates.
- Effectively pinpointing and resolving trouble spots with powerful diagnostic tools that give ongoing visibility into the server environment, both physical and virtual.
- Increased control over servers located in remote locations, such as the branch office. With optimized server administration and data replication, provides users with better service while reducing management headaches.

Windows Server® 2008
WINDOWS SERVER 2008 SYSTEM REQUIREMENTS

COMPONENT	REQUIREMENT
Processor	Minimum: 1GHz (x86 processor) or 1.4GHz (x64 processor) Recommended: Recommended: 2GHz or faster Note: An Intel Itanium 2 processor is required for Windows Server 2008 for Itanium-based Systems
Memory	Recommended: 2GB RAM or greater Optimal: 2GB RAM (Full installation) or 1GB RAM (Server Core installation) or more Maximum (32-bit systems): 4GB (Standard) or 64GB (Enterprise and Datacenter) Maximum (64-bit systems): 32GB (Standard) or 2TB (Enterprise, Datacenter and Itanium-based Systems)
Available Disk Space	Minimum: 10GB Recommended: 40GB or greater Note: Computers with more than 16GB of RAM will require more disk space for paging, hibernation, and dump files
Drive	DVD-ROM drive
Display	Super VGA (800 × 600) or higher-resolution monitor
Other	Keyboard and Microsoft Mouse or compatible pointing device

To learn more about Windows Server 2008, please visit the product website at *www.microsoft.com/windowsserver2008*

Windows® Small Business Server 2003 R2
www.microsoft.com/sbs

Note: The non-embedded, full version of Windows Small Business Server 2003 R2 is not available through the Embedded Distribution channel. Information on how to license and build general purpose servers is available on the OEM Partner Center (OPC) (*http://www.microsoft.com/oem/enroll.mspx*) or by contacting your Microsoft Account Manager.

Windows® Small Business Server 2003 R2 is the network solution for small businesses with 50 or fewer computers. Windows Small Business Server 2003 R2 includes not only Windows Server® 2003, but also Windows Server® 2000-based upgrades to all of the component applications, including Microsoft® Exchange Server 2003 for Embedded Systems for email, Internet Security and Microsoft® Internet Security and Acceleration Server 2004 for secure Internet connectivity, Microsoft SQL Server® 2005 for shared database capabilities, plus a completely re-architected fax service and a new modem sharing service. Microsoft Windows Small Business Server 2003 R2 helps small business customers to internet-enable their businesses, manage and grow customer relationships, and enhance employee productivity.

Small Business Server 2003 R2 provides many of the features used by large companies—e-mail, secure Internet connection, internal Web sites, remote connectivity, support for mobile devices, file and printer sharing, backup and restore— all in one affordable, integrated solution designed for small businesses.

SBS 2003 R2 BENEFITS AND PRODUCT TECHNOLOGIES

SBS 2003 R2: BENEFIT	PRODUCT TECHNOLOGIES	STANDARD EDITION	PREMIUM EDITION
» Protected, reliable operating system » File, print, and application sharing » Robust firewall for improved security and data protection	Microsoft Windows Server 2003	•	•
» Internal company Web site (Intranet) for document and information sharing	Microsoft Windows SharePoint Services	•	•
» E-mail and messaging solution » Shared calendaring » *NEW!* Expanded mailbox limits to 75 GB	Microsoft Exchange Server 2003 SP2 Microsoft Office Outlook 2003	•	•
» *NEW!* Automated network-wide patch and update management » *NEW!* Daily report on status of desktops and server(s) running Microsoft software	*NEW!* Microsoft Windows Server Update Services	•	•
» Fax with fewer phone lines from desktops » Receive faxes via e-mail or printer	Microsoft Shared Fax Service	•	•
» Powerful, integrated data management and reporting solution	*NEW!* Microsoft SQL Server 2005 Workgroup Edition		•
» Firewall for multi-layer security » Tools to manage and monitor internal Internet access	Microsoft Internet and Security Acceleration (ISA) Server 2004		•
» Tools to develop Web sites	Microsoft Office FrontPage 2003		•

Windows® Small Business Server 2003 R2
SYSTEM REQUIREMENTS

COMPONENT	MINIMUM REQUIREMENT	RECOMMENDED
Processor	750 MHz	1 GHz or faster
RAM	512 MB	1 GB or more 4 GB maximum
Hard Disk	16 GB of available hard-disk space*	

To learn more about Small Business Server, please visit the product website at *www.microsoft.com/sbs*.

*Actual requirements will vary based on your system configuration and the applications and features you choose to install. Windows Small Business Server 2003 R2 supports up to two CPUs on one server.

Evaluate and License Through Authorized Distributors

Microsoft provides a clearly defined licensing process, product information, tools, and resources to ensure greater productivity and fast time-to-market for OEMs and developers building dedicated server and server appliance solutions running Microsoft Server with Embedded Licensing products.

LICENSING OVERVIEW
Microsoft Server with Embedded Licensing products are available for use in dedicated and specialized server and server appliances by licensed OEMs only. Microsoft Server with Embedded Licensing products can be licensed through Microsoft Authorized Embedded Distributors and, in certain high-volume cases, directly from Microsoft. To obtain a courtesy copy of the licensing provisions for the products summarized in this guide, request one from your Microsoft Authorized Embedded Distributor. Search for your Microsoft Authorized Embedded Distributor at
http://www.microsoft.com/windowsserversystem/solutions/specializedservers/distributorsearch.aspx.

MICROSOFT SERVER WITH EMBEDDED LICENSING PRODUCT COMPONENTS
It is helpful to understand the basic software components of a dedicated server or server appliance solution running Microsoft Server with Embedded Licensing products. The following provides a useful outline and helps distinguish available options and opportunities for OEMs to build unique solutions running Microsoft Server with Embedded Licensing products.

TYPICAL OEM PRODUCT DEVELOPMENT AND LICENSING STEPS:
1 Evaluate Microsoft Server with Embedded Licensing products software
2 Prepare prototype and test proof of concept
3 Contact your Microsoft Authorized Embedded Distributor at
   http://www.microsoft.com/windowsserversystem/solutions/specializedservers/distributorsearch.aspx
   to determine which product to use and request OEM CLA and associated
4 Additional Licensing Provisions (ALPs) for review
5 Sign the OEM CLA, return to the distributor, and request appropriate Microsoft Server with Embedded Licensing product OPK
6 Design, develop, and test server prototype and install the selected Microsoft Server with Embedded Licensing products and embedded application (if applicable)
7 Lock down the operating system for fixed function use (if applicable)
8 Prepare and clone final image for manufacture
9 Perform QA & Test systems
10 Activate the operating system using the Windows Product Activation (WPA) method or System Lock Preinstallation (SLP) if and when the OEM is eligible for SLP by shipping 100 units or more during the previous 12 months
11 Ship each system with the required Microsoft Software License Terms and Certificate of Authenticity (COA) affixed to the outside of the server enclosure
12 Obtain a Microsoft Specialized Server Marketing and Technical Resources Toolkit from your distributor or Microsoft Account Manager, and begin marketing and selling Microsoft Server with Embedded Licensing solutions

Evaluate and License Through Authorized Distributors

EVALUATION SOFTWARE

EVALUATE BEFORE YOU LICENSE
Microsoft Server with Embedded Licensing products are available for evaluation prior to licensing. To obtain Microsoft Server with Embedded Licensing products evaluation software, download it online at: *http://microsoft.download-ss.com*

EVALUATION SOFTWARE PRODUCT KEYS
Some Microsoft Server with Embedded Licensing products evaluation software require a unique product key to activate at time of installation. Required product keys are provided automatically if and when the Microsoft Server with Embedded Licensing products evaluation software is downloaded online.

OEM PREINSTALLATION KITS
Microsoft provides the tools required for OEMs to quickly design dedicated server and server appliances solutions based on the Microsoft server product portfolio technology. These tools are called OEM Preinstallation Kits (OPKs), and they jump-start the process of building a dedicated server or server appliance solution running Microsoft Server with Embedded Licensing products.

To obtain appropriate Microsoft Server with Embedded Licensing product OPKs, OEMs must first sign an OEM Customer License Agreement (OEM CLA). See the Licensing Overview within this product guide for more information.

CONTACT A DISTRIBUTOR FOR LICENSING INFORMATION

Microsoft Authorized Embedded Distributors provide valuable information and resources that help support OEMs in bringing Microsoft Server with Embedded Licensing solutions to market quickly. Microsoft Server licenses are only distributed through Authorized Embedded Distributors.

Distributors can help you choose the right product and navigate the licensing process, discuss pricing options, and distribute Runtime Licenses. During your build process, they'll provide technical support and offer value-added services.

A general illustration on how to license Microsoft Server with Embedded Licensing products is described below. The licensing process may vary per product and is subject to change, so please check with your Microsoft Authorized Embedded Distributor for exact details.

STAGE 1: FIND A DISTRIBUTOR
» Contact a Windows Embedded Authorized Distributor today for specific licensing details and access to the complete set of development tools available to help bring your dedicated server to market quickly
» In certain, high-volume cases, OEMs can license directly from Microsoft
» Identify a Microsoft Authorized Embedded Distributor in your region
» Visit *www.microsoft.com/specializedservers*
  • In the left-hand navigation select: Become An OEM
  • Select Licensing
  • Select your region
  • Select a Microsoft Authorized Embedded Server Distributor

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MICROSOFT® SERVER WITH EMBEDDED LICENSING PRODUCT GUIDE
To find the latest information on Server with Embedded Licensing Products, visit www.microsoft.com/specializedservers

Evaluate and License Through Authorized Distributors

CONTACT A DISTRIBUTOR FOR LICENSING INFORMATION—CONTINUED

STAGE 2: PRESALES
» OEM contacts Microsoft Authorized Embedded Distributor
» OEM obtains a Microsoft Server with Embedded Licensing Evaluation Kit from a distributor, a Microsoft manager, or online using *Microsoft.com* and obtains relevant product keys, if applicable
» Distributor provides a Microsoft OEM CLA and a courtesy copy of the ALPs for the Microsoft Server with Embedded Licensing product of interest
» OEM CLA: A standard set of general terms and conditions that each OEM must sign in order to acquire Microsoft Server with Embedded Licensing products licenses
» ALPs: ALPs define product use rights and restrictions specific to each of the individual Microsoft Server with Embedded Licensing products

STAGE 3: SIGNED OEM CLA
» For eligible products, distributor provides OEM with OPK
» OPK: Kits that include software and tools relevant to the specific Microsoft Server with Embedded Licensing products being licensed

STAGE 4: ENGINEERING
» OEM completes development of the master embedded server image
» OEM contacts distributor to order Run-time Licenses, Associated Product Materials (APM), and CALs, if applicable
» OEM may create and reproduce, or have a Microsoft Authorized Replicator reproduce, a Recovery CD/DVD
» OEM may want to consider engaging support through an OEM Engineering Foundation contract

Run-time License: After ordering Run-time Licenses, the OEM will receive APM from the distributor. APM consists of materials Microsoft designates that are required for distribution with the embedded system. APM typically includes at least two items—the COA and the ALPs that include specific Microsoft Software License Terms. Each embedded system being distributed requires a Run-time License. Depending on the product(s) licensed, a CAL may be required for each user or device (or combination of both) that accesses or uses the Microsoft Server with Embedded Licensing products server software.

STAGE 5: ENGINEERING
» OEM activates the Microsoft Server with Embedded Licensing products

Product Activation: Prior to distribution to end customers, the OEM must activate the Microsoft Server with Embedded Licensing-based product through one of two options: 1) WPA method: a manual procedure that requires an Internet connection or 2) SLP: an automated activation procedure. OEMs become eligible to use SLP by shipping 100 units or more in the previous 12 months.

STAGE 6: DISTRIBUTION AND SALES
» Customer distributes specialized or embedded systems with a COA and Microsoft Software License Terms as required

COA: A serialized label affixed to devices containing specialized or embedded Microsoft operating systems. The COA is the primary antipiracy tool, product tracking tool, and proof of purchase. The product-specific name is printed on the label.

Microsoft Software License Terms: The terms and conditions that must be passed through to the end user, packaged together with the dedicated server or server appliance when shipped.

Evaluate and License Through Authorized Distributors

ADDITIONAL RESOURCES

MICROSOFT OEM FOUNDATION SERVICES
To remain competitive in today's marketplace, it is imperative to accelerate time-tomarket of high quality, differentiated hardware and software solutions. Microsoft's OEM Services group provides access to a team of technical professionals who possess deep industry knowledge and focus solely on helping you build and ship quality products on Microsoft platforms. This one-page overview provides additional information on the services available through Microsoft OEM Foundation Services. Contact us for more information at: *oemfs@microsoft.com*.

MICROSOFT EMBEDDED SERVER OEM NEWSLETTER
This newsletter is designed to offer Specialized and Embedded Server OEMs comprehensive information on Microsoft's Embedded Server products. Every other month, a new newsletter will be delivered to your email box with information regarding the pre-installation of these products as well as online technical support, sales information, training and events information. Register online at: *http://go.microsoft.com/?linkid=8281109*.

DISTRIBUTORS
Microsoft Server with Embedded Licensing licenses are only distributed through Microsoft Authorized Embedded Distributors. Authorized Embedded Distributors provide valuable information and resources that help support OEMs in bringing Microsoft Server with Embedded Licensing solutions to market quickly.

Microsoft Authorized Embedded Distributors can aid OEMs with Microsoft with Embedded Licensing products in several ways, including:
» Helping choose the right product and navigating the licensing process
» Providing evaluation software and OPKs
» Facilitating the build process with technical support and by offering value-added services
» Discussing pricing and licensing options and selling Run-time Licenses
» Supporting OEMs to bring new Microsoft Server with Embedded Licensing-based dedicated server or server appliance solutions to market quickly

MICROSOFT DEDICATED SERVERS WEB SITE
Explore existing OEM solutions running Microsoft with Embedded Licensing products, review licensing resources, download evaluation software, and find a Microsoft Authorized Embedded Distributor at: *www.microsoft.com/specializedservers*.

MICROSOFT SERVER WEB SITE
Get to know the portfolio of integrated server software products that provides the infrastructure for IT operations, application development and integration, security, and collaboration at: *www.microsoft.com/server*.

TO FIND PRODUCT-SPECIFIC INFORMATION, VISIT THE FOLLOWING HELPFUL LINKS:

Download and evaluate Microsoft
Server with Embedded Licensing Software
http://microsoft.download-ss.com

Windows Server
www.microsoft.com/server

Windows Unified Data Storage Server and
Windows Storage Server
www.microsoft.com/storage

Microsoft System Center Data Protection
Manager
www.microsoft.com/dpm

Microsoft Response Point
www.microsoft.com/responsepoint

Windows Home Server
www.microsoft.com/windowshomeserver

Internet Security and Acceleration Server
www.microsoft.com/isaserver

Intelligent Application Gateway
www.microsoft.com/iag

SQL Server
http://www.microsoft.com/sql/2008

Windows Small Business Server
www.microsoft.com/sbs

Evaluate and License Through Authorized Distributors

FREQUENTLY ASKED QUESTIONS

WHY WOULD AN OEM CHOOSE A MICROSOFT SERVER WITH EMBEDDED LICENSING PRODUCT OVER A NON-EMBEDDED OR SPECIALIZED VERSION OF THE PRODUCT?
Microsoft has developed specific solutions to answer customers' embedded server needs. These Microsoft Server with Embedded Licensing versions offer lower royalty rates due to the licensing terms that restrict how it can be used. This can result in lower development costs that an OEM can pass through to end customers.

ARE PER USER OR PER CLIENT CALS REQUIRED FOR SERVER SOLUTIONS RUNNING CC SERVER WITH EMBEDDED LICENSING PRODUCTS?
In many cases, CALs are not required for dedicated server and server appliance solutions running Microsoft with Embedded Licensing products.

CAN ISV SOLUTIONS DESIGNED TO RUN ON MICROSOFT SERVER RUN ON THE EMBEDDED VERSIONS AVAILABLE AS MICROSOFT SERVER WITH EMBEDDED LICENSING PRODUCTS?
Yes, in most cases, ISV solutions designed to run on Microsoft Server can run on the Microsoft Server with Embedded Licensing versions where licensing restrictions permit. This provides OEMs an opportunity to add unique value to their dedicated server and server appliance solutions running Microsoft Server with Embedded Licensing products.

ARE THERE ANY FEATURES REMOVED FROM MICROSOFT SERVER IN THE EMBEDDED VERSIONS AVAILABLE AS MICROSOFT WITH EMBEDDED LICENSING PRODUCTS?
No, the core operating system is the same. The difference is in the OEM's license rights and restrictions, as summarized for each product within this product guide.

WHAT IS THE BEST SOURCE FOR DETAILED LICENSING INFORMATION AND SUPPORT?
Detailed licensing information and support can be obtained from a Microsoft Authorized Embedded Distributor.

DOES MICROSOFT LICENSE MICROSOFT SERVER WITH EMBEDDED LICENSING PRODUCTS DIRECTLY TO OEMS?
In certain high-volume cases OEMs can license directly from Microsoft. Contact your Microsoft Account Manager to see if you qualify.

For information on all other Windows Servers, visit *www.microsoft.com/server*

Microsoft

Windows Server® 2008 Retail vs. Microsoft Server with Embedded Licensing Products:

LICENSING RESTRICTION COMPARISON
PRODUCTS AT-A-GLANCE CHART

Note:
Bold text is used to indicate where Microsoft Server with Embedded Licensing Products provisions differ from the retail version of Windows Server 2008.

LICENSING PROVISIONS	STANDARD EDITION	MICROSOFT SERVER WITH EMBEDDED LICENSING PRODUCTS (ALL STANDARD EDITION)					
	WINDOWS SERVER 2008	WINDOWS SERVER 2008 FOR EMBEDDED SYSTEMS	WINDOWS SERVER 2008 FOR EMBEDDED SYSTEMS ESSENTIALS	WINDOWS SERVER 2008 FOR EMBEDDED SYSTEMS FOR TELCO	WINDOWS UNIFIED DATA STORAGE SERVER AND WINDOWS® STORAGE SERVER	WINDOWS SERVER® 2003 R2 FOR EMBEDDED SYSTEMS WITH ISA 2006 AND IAG 2007	WINDOWS® BRANCH OFFICE APPLIANCE
OPERATING SYSTEM CODE BASE	WS 2008	WS 2008	WS 2008	WS 2008	**WS 2003 R2 SP2**	**WS 2003 R2 SP2**	**WS 2003 R2 SP2**
PROCESSORS	1-4	1-4	1-4	1-4	1–4	1–2	1
KEYBOARD, VIDEO, AND MOUSE	OPTIONAL	OPTIONAL	**NO**	**NO**	**NO**	**NO**	**NO**
REMOTE MANAGEMENT INTERFACE	OPTIONAL	OPTIONAL	**REMOTE DESKTOP; MMC REMOTING**	**REMOTE DESKTOP; MMC REMOTING**	**MMC VIA REMOTE DESKTOP**	**MMC VIA REMOTE DESKTOP**	**MMC VIA REMOTE DESKTOP**
PREINSTALLED OPERATING SYSTEM	OPTIONAL	**MANDATORY**	**MANDATORY**	**MANDATORY**	**MANDATORY**	**MANDATORY**	**MANDATORY**
LINE-OF-BUSINESS APPLICATIONS	OPTIONAL	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**
EMBEDDED APPLICATIONS	OPTIONAL	**MANDATORY**	**MANDATORY**	**MANDATORY**	**NO**	**NO**	**NO**
FIREWALL, VPN, AND WEB CACHE	OPTIONAL	OPTIONAL	**NO**	**NO**	**NO**	**MANDATORY**	**CACHE ONLY**
MESSAGING OR ENTERPRISE MAIL	YES	YES	**NO**	**POP 3 ONLY**	**NO**	**NO**	**NO**
FILE SERVICE OVER NETWORK	YES	YES	**NO**	**NO**	**MANDATORY**	**NO**	YES
AUTHENTICATION SERVICES	YES	YES	**NO**	**NO**	**NO**	**NO**	YES
NETWORK INFRASTRUCTURE	YES	YES	**NO**	**LIMITED**	**LIMITED**	**NO**	YES
NETWORK LOAD BALANCING	YES	YES	YES	YES	**NO**	**NO**	**NO**
FAIL-OVER CLUSTERING	NO	NO	NO	NO	NO	NO	NO
PRINT	YES	YES	**NO**	**NO**	YES	**NO**	YES
CALS REQUIRED	YES	YES	**NO**	**NO**	**NO**	**NO**	YES

*Microsoft Windows® Storage Server supports Microsoft SharePoint® and Single Instance Storage and is available in editions with iSCSI management (Windows® Unified Data Storage Server).

MICROSOFT® SERVER WITH EMBEDDED LICENSING PRODUCT GUIDE
To find the latest information on Server with Embedded Licensing Products, visit www.microsoft.com/specializedservers