QuickSpecs

Overview

Windows Server 2008 R2 builds on the award-winning foundation of Windows Server 2008, expanding existing technology and adding new features to enable organizations to increase the reliability and flexibility of their server infrastructures. New virtualization tools, Web resources, management enhancements, and exciting Windows 7 integration help save time, reduce costs, and provide a platform for a dynamic and efficiently managed data center. Powerful tools such as Internet Information Services (IIS) version 7.5, updated Server Manager and Hyper-V platforms and Windows PowerShell version 2.0 combine to give customers greater control, increased efficiency, and the ability to react to front-line business needs faster than ever before. For more information, please visit: http://www.microsoft.com/windowsserver2008/en/us/default.aspx

ProLiant server and option products are rigorously tested and certified for Windows Server 2008 R2. For a complete list of supported ProLiant servers, visit the OS support matrix at: www.hp.com/go/wincert.

HP Windows Server 2008R2 OEM licenses are available for purchase from HP or your local authorized reseller.

- Available OEM licenses: Standard Edition with Hyper-V, Enterprise Edition with Hyper-V, Datacenter Edition (2P/4P/8P)) with Hyper-V, Web Server
  NOTE: Please see the "Virtualization" section in the Product Features section for additional information regarding Hyper-V.
- All Windows Server 2008 R2 kits include:
  - x64 DVD media
  - CALs or Client Access Licenses: 5 Client Access Licenses for Standard Edition, 10 or 25 Client Access Licenses for Enterprise Edition. Client licenses are not required for Web Server.
  - Certificate of Authenticity (COA) - Sticker that contains your product key and is affixed to your server. The COA is your proof of license for the operating system.
- From HP: Available for purchase at the time of your ProLiant server purchase as pre-installed on select HP ProLiant servers or Non-preinstalled (drop in the box) with the operating system DVDs included with the server. Client access licenses (CALs) are also available for purchase in addition to your server purchase or for a later purchase. Please be sure to review the minimum and maximum system requirements for Windows Server 2008 R2 at the Microsoft website listed above.
- From your local authorized reseller: Available for purchase with your preferred ProLiant server as a Windows Reseller Option Kit or ROK.

HP OEM License Activation requirements:

- Reseller Option Kit product licenses and OEM customers who have replaced their motherboards as result of warranty will require activation of their licenses directly with Microsoft. Customers will receive an activation alert upon installation of the OS and have 30-days from OS installation to complete the activation. Activation requires the following simple steps: Select activation via phone or internet, provide the product key, and license is confirmed and activated. For more information on Microsoft license activation, visit http://www.microsoft.com/piracy/mpa.aspx

NOTE: For more information on HP's offering of Windows Server 2008 products, go to: http://www.hp.com/go/ws08r2

What's New
- Adding offerings of Brazilian Portuguese language.

QuickSpecs

Overview

Windows Server 2008 R2 Enterprise Edition
OS Not Pre-Installed with 25 CALs

NOTE: All Enterprise Edition part numbers include 25 client access licenses, x64 DVD media, and COA. Sold only as a configurable option with a ProLiant server purchase. Multilanguage SKU xxx-291 is available for APJ region. Multilanguage SKU xxx-B21 is available for EMEA and Americas.

Windows Server 2008 R2 Enterprise Edition   604967--xxx

Language Code Key for 604967-xxx	xxx = B21	English, French, Spanish
	xxx = 291	English, Japanese
	xxx = 292	Japanese
	xxx = AA1	Simplified Chinese

Windows Server 2008 R2 Datacenter Edition (Not Pre-installed)

NOTE: All Datacenter Edition part numbers include x64 DVD media and COA. Sold only as a configurable option with a ProLiant server purchase.

Windows Server 2008 R2 Datacenter Edition 2p Non Preinstall   589251-xxx

Language Code Key for 589251-xxx	xxx = B21	English
	xxx = 201	Brazilian Portuguese
	xxx = 291	Japanese

Windows Server 2008 R2 Datacenter Edition 4p Non Preinstall - English   605183-B21
Windows Server 2008 R2 Datacenter Edition 4p Non Preinstall - Japanese   589252-291
Windows Server 2008 R2 Datacenter Edition 8p Non Preinstall - English   605186-B21

Windows Server 2008 R2 Standard Edition Reseller Option Kit

NOTE: Available for purchase from your local HP authorized reseller. Standard Edition includes 5 Client Access   589256-xxx
Licenses, x64 DVD media, and COA. Reseller must affix the COA to the server and may preinstall the OS before delivery of the server. Multilanguage SKU xxx-371 is available for APJ region. Multilanguage SKUs xxx-021 and xxx-421 are available for EMEA. Multilanguage SKU xxx-B21 is available for EMEA and Americas.

Language Code Key for 589256-xxx	xxx = B21	English, French, Italian, German, Spanish
	xxx = 371	English, Japanese, Korean
	xxx = AA1	Simplified Chinese
	xxx = AB1	Traditional Chinese
	xxx = 021	Russian, Portuguese, Dutch, Swedish
	xxx = 421	Polish, Turkish, Czech, Hungarian
	xxx = 201	Brazilian Portuguese
	xxx = 292	Japanese

Windows Server 2008 R2 Enterprise Edition Reseller Option Kit with 10 CALs

NOTE: Available for purchase from your HP local authorized reseller. Enterprise Edition includes 10 client access   589257-xxx
licenses, x64 DVD media, and COA. Reseller must affix the COA to the server and may preinstall the OS before delivery of the server. Multilanguage SKU xxx-291 is available for APJ region. Multilanguage SKU xxx-021 is available for EMEA. Multilanguage SKU xxx-B21 is available for EMEA and Americas.

Overview

Language Code Key for 589257-xxx	xxx = B21	English, French, Spanish
	xxx = 021	German, Italian, Russian
	xxx = 201	Brazilian Portuguese
	xxx = 291	English, Japanese
	xxx = AA1	Simplified Chinese
	xxx = AB1	Traditional Chinese
	xxx = AD1	Korean
	xxx = 292	Japanese

Windows Server 2008 R2 Enterprise Edition Reseller Option Kit with 25 CALs

NOTE: Available for purchase from your HP local authorized reseller. Enterprise Edition includes 25 client access licenses, x64 DVD media, and COA. Reseller must affix the COA to the server and may preinstall the OS before delivery of the server. Multilanguage SKU xxx-291 is available for APJ region. Multilanguage SKU xxx-021 is available for EMEA. Multilanguage SKU xxx-B21 is available for EMEA and Americas.

604968-xxx

Language Code Key for 604968-xxx	xxx = B21	English, French, Spanish
	xxx = 021	German, Italian, Russian
	xxx = 291	English, Japanese
	xxx = AA1	Simplified Chinese
	xxx = AB1	Traditional Chinese
	xxx = AD1	Korean
	xxx = 292	Japanese

Windows Server 2008 R2 Datacenter Edition 2p Reseller Option Kit

NOTE: Available for purchase from HP or your local HP authorized reseller. Datacenter Edition includes x64 DVD media, and COA. Reseller must affix the COA to the server and may preinstall the OS before delivery of the server to the end-customer.

589258-xxx

Language Code Key for 589258-xxx	xxx = B21	English
	xxx = 041	German
	xxx = 051	French
	xxx = 201	Brazilian Portuguese
	xxx = 291	Japanese

Overview

Windows Server 2008 - Remote Desktop Services

NOTE: All part numbers include 5 User or Device Client Access License (CAL) Packs (as stated); Sold from HP with or without a ProLiant server.

Windows Server 2008 5-CAL User Pack (English)	599190-B21
Windows Server 2008 5-CAL Device Pack (English)	599191-B21

Windows Server 2008 - Client Access Packs

NOTE: All part numbers may include 1 or 5 User or Device Client Access License (CAL) Packs (as stated); Sold from HP with or without a ProLiant server. Multilanguage SKU xxx-371 is available for APJ region. Multilanguage SKU xxx-B21 is available for EMEA and Americas.

Windows Server 2008 1-CAL User Pack (English, German, French, Italian, Spanish)	508188-B21
Windows Server 2008 1-CAL User Pack (English, Japanese, Simplified Chinese, Traditional Chinese, Korean)	508188-371
Windows Server 2008 5-CAL User Pack (English, German, French, Italian, Spanish)	468729-B21
Windows Server 2008 5-CAL User Pack (English, Japanese, Simplified Chinese, Traditional Chinese, Korean)	468729-371
Windows Server 2008 1-CAL Device Pack (English, German, French, Italian, Spanish)	508191-B21
Windows Server 2008 1-CAL Device Pack (English, Japanese, Simplified Chinese, Traditional Chinese, Korean)	508191-371
Windows Server 2008 5-CAL Device Pack (English, German, French, Italian, Spanish)	468730-B21
Windows Server 2008 5-CAL Device Pack (English, Japanese, Simplified Chinese, Traditional Chinese, Korean)	468730-371

Downgrade Windows Server 2003 R2 Standard Edition

NOTE: Only available when purchasing WS Server 2008 R2 with an HP ProLiant server.   484041-xxx

Language Code Key for 484041-xxx		
	xxx = B21	English
	xxx = 041	German
	xxx = 051	French
	xxx = 061	Italian
	xxx = 071	Spanish
	xxx = 131	Portuguese
	xxx = 141	Turkish
	xxx = 221	Czech
	xxx = 241	Polish
	xxx = 251	Russian
	xxx = 291	Japanese
	xxx = 331	Dutch
	xxx = AA1	Chinese Simplified
	xxx = AB1	Chinese Traditional
	xxx = AD1	Korean

Downgrade Windows Server 2003 R2 Enterprise Edition

NOTE: Only available when purchasing WS Server 2008 R2 with an HP ProLiant server.   484042-xxx

Overview

Language Code Key for 484042-xxx		
	xxx = B21	English
	xxx = 041	German
	xxx = 051	French
	xxx = 061	Italian
	xxx = 071	Spanish
	xxx = 251	Russian
	xxx = 291	Japanese
	xxx = AA1	Chinese Simplified
	xxx = AB1	Chinese Traditional
	xxx = AD1	Korean

Downgrade Windows Server 2008 Standard Edition Not Pre-Installed

NOTE: Only available when purchasing WS Server 2008 R2 with an HP ProLiant server.   641698-xxx

Language Code Key for 641698-xxx		
	xxx = B21	English
	xxx = 041	German
	xxx = 051	French
	xxx = 061	Italian
	xxx = 071	Spanish
	xxx = 291	Japanese
	xxx = AA1	Chinese Simplified

Downgrade Windows Server 2008 Standard Edition Reseller Option Kit

NOTE: Only available when purchasing WS Server 2008 R2 with an HP ProLiant server.   641699-xxx

Language Code Key for 641699-xxx		
	xxx = B21	English
	xxx = 021	Italian, Russian, Portuguese, Dutch, Swedish
	xxx = 041	German
	xxx = 051	French
	xxx = 071	Spanish
	xxx = 291	Japanese
	xxx = 421	Turkish, Czech, Polish, Hungarian
	xxx = AA1	Chinese Simplified
	xxx = AB1	Chinese Traditional
	xxx = AD1	Korean

Downgrade Windows Server 2008 Enterprise Edition Not Pre-Installed

NOTE: Only available when purchasing WS Server 2008 R2 with an HP ProLiant server.   641700-xxx

Language Code Key for 641700-xxx		
	xxx = B21	English
	xxx = 071	Spanish
	xxx = 291	Japanese
	xxx = AA1	Chinese Simplified

Downgrade Windows Server 2008 Enterprise Edition Reseller Option Kit

NOTE: Only available when purchasing WS Server 2008 R2 with an HP ProLiant server.   641701-xxx

Overview

Language Code Key for 641701-xxx

xxx = B21	English
xxx = 041	German
xxx = 051	French
xxx = 061	Italian
xxx = 071	Spanish
xxx = 251	Russian
xxx = 291	Japanese
xxx = AA1	Chinese Simplified
xxx = AB1	Chinese Traditional
xxx = AD1	Korean

Product Features

Windows Server 2008 R2	- Windows Server 2008 R2 builds on the award-winning foundation of Windows Server 2008, expanding existing technology and adding new features to enable IT professionals to increase the reliability and flexibility of their server infrastructures. Windows Server 2008 R2 includes many enhancements that make this release the most robust Windows Server Web application platform yet. It offers an updated Web server role, Internet Information Services (IIS) 7.5, and greater support for .NET on Server Core. Design goals for IIS 7.5 concentrated on improvements that enable Web administrators to more easily deploy and manage Web applications that increase both reliability and scalability. Additionally, IIS 7.5 has streamlined management capabilities and provides more ways to customize your Web serving environment. - Virtualization is a major part of today's data centers. The operating efficiencies offered by virtualization allow organizations to dramatically reduce operational effort and power consumption. Windows Server 2008 R2 provides the following virtualization types: Client and Server virtualization provided by Hyper-V and Presentation virtualization with Remote Desktop Services. - The ongoing management of servers in the data center is one of the most time-consuming tasks facing IT professionals today. Any management strategy you deploy must support the management of both your physical and virtual environments. To help with this problem, Windows Server 2008 R2 has new features to reduce the ongoing management of Windows Server 2008 R2 and to reduce the administrative effort for common day-to-day operational tasks. - Windows Server 2008 R2 is capable of unprecedented workload size, dynamic scalability, and across-the-board availability and reliability. A host of new and updated features will be available, including leveraging sophisticated CPU architectures, increased operating system componentization, and improved performance and scalability for applications and services.

Please review the hardware system requirements on the Windows Server 2008 R2 website.

NOTE: For more information on full features of Window Server 2008 R2, visit:
http://www.microsoft.com/windowsserver2008/en/us/default.aspx

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Virtualization	Virtualization is a major part of today's data centers. The operating efficiencies offered by virtualization allow organizations to dramatically reduce operational effort and power consumption. Windows Server 2008 R2 provides the following virtualization types: Client and Server virtualization provided by Hyper-V and Presentation virtualization with Remote Desktop Services. Windows Server 2008 R2 introduces a new version of Hyper-V. Hyper-V in Windows Server 2008 R2 includes a number of core areas of improvement for creating dynamic virtual data centers including increased availability and performance, improved management, simplified methods for deployment and new features including live migration. **NOTE:** For more information about using your virtualization product keys, see: http://go.microsoft.com/fwlink/?LinkId=100268.

Additional Features

Insight Control Edition

HP ProLiant Essentials Software is a suite of value-add software that offer complete management solutions for your ProLiant server environment.

- Simple server configuration and maintenance via ProLiant SmartStart software (SmartStart Scripting Toolkit)
- Enhanced deployment and server management tools via ProLiant Essentials - Rapid Deployment, Workload Management, Virtual Machine Management, Vulnerability and Patch Management, Performance Management Pack software.
- Proactive notification/alerting via ProLiant Essentials software, System Insight Manager software, Integrated Lights-Out board, and SmartStart Subscription Service

NOTE: For more information, visit: http://www.hp.com/go/ice.

Software Technical Support

Software Technical Support for Windows Server 2008 R2 is available from HP via multiple contact methods, including electronic media and telephone, for ninety (90) days from date of purchase. Software Technical Support includes assistance with:

- **24x7x365 access to technical resources** - Connect with HP Response Center engineers via telephone, electronic communication, or FAX for assistance in resolving software implementation or operations problems. Service is available around the clock every day, including all holidays.
- **Problem analysis and resolution** - HP Services provides corrective support to resolve identifiable and reproducible software product problems, and to help you identify problems that are difficult to reproduce. You can also receive assistance in trouble-shooting problems and setting configuration parameters.
- **Software features and operational support** - HP provides information on the latest product features and known problems and solutions, plus operational advice and assistance.
- **Escalation management** - Established escalation procedures enlist specialized expertise from HP to Microsoft Windows
- **Installation advisory** - Advisory support is available for help with installation and updating of standalone applications or products installed in a network environment.
- **Electronic software information** - Access HP's electronic support facility including symptom-solution database, product descriptions, specifications, technical literature, and more.

Software technical support does NOT include assistance with:

- Generating or diagnosing user generated programs or source codes
- Installation of non-HP products

Additional Features

Service and Support   HP Services offers a full portfolio of comprehensive services and cost-saving updates to help you enhance the performance and availability of software from HP and other leading vendors. Services can be configured for Operating System-only support, or can be configured to support the Operating System plus the standard Microsoft Server Applications installed on the server.

- **Standard Support**: Available standard business hours on standard business days, this convenient HP Care Pack service gives your IT team direct access to HP IT Response Centers. Experienced Response Center engineers provide trustworthy advice on issues such as software features and use, problem diagnosis and resolution, and software defect identification. Any member of your IT staff can electronically access essential product and support information.
- **HP 24x7 Software Technical Support** provides comprehensive round-the-clock services and cost-saving updates to help you enhance the performance and availability of software from HP and other leading vendors.
- **HP Support Plus** delivers onsite hardware support and over-the-phone software support 13 hours per day, 5 days per week. Service coverage encompasses HP products and selected multi-vendor hardware and software.
- **HP Support Plus 24** delivers onsite hardware support and over-the-phone software support around-the-clock 365 days per year.
- **HP Proactive 24** delivers onsite hardware support and over-the-phone software support, plus proactive problem identification and solutions recommendation, with remote monitoring, and an assigned account manager to manage the proactive services.
- **HP Critical Service** delivers onsite hardware support and over-the-phone software support, plus proactive problem identification and solutions recommendation, with remote monitoring, and an assigned support team to manage the proactive services. The assigned support team will conduct a pre-assessment of your server environment, working with your IT team to develop a strategy to align the server environment with your business goals. Quarterly assessments will be conducted to ensure ongoing alignment with your goals.
- **HP Installation and Startup Services** helps ensure that your new HP hardware or software is installed smoothly, efficiently, and with minimal disruption of your IT and business operations.

NOTE: For more information, visit HP Care Pack Services at: http://www.hp.com/services.

Microsoft Software Assurance   Microsoft Software Assurance (SA) is a way for licensed customers to keep current with the latest, most innovative Microsoft products. Under the SA program, customers acquire the right to access any new release of a product covered in the agreement during the term of the coverage. Software Assurance now also includes more benefits for the same price, including problem resolution support during business hours for covered server products, access to Managed Newsgroups and Online Concierge Chat, and Microsoft's self-paced training courses.

In order to guarantee eligibility for the most current product releases and "upgrade-like" pricing you will need to purchase Software Assurance.

NOTE: For more information, please visit:
http://www.microsoft.com/licensing/programs/sa/default.mspx

Additional Features

HP Software Licensing and Management Solutions (SLMS)	HP SLMS provides prime source licensing fulfillment and software license management solutions for various Microsoft operating systems and applications volume licenses to large multinational enterprise or domestic companies. HP provides a global sales channel for all Microsoft program and services and will work with you to select the program that best suits your needs. HP offers three comprehensive Microsoft licensing programs: Open, Select and Enterprise License. **NOTE:** For more information on HP SLMS, visit: http://h71028.www7.hp.com/enterprise/cache/8786-0-0-0-121.aspx
Windows Server Catalog Definition	Microsoft's certification program allows HP ProLiant servers a compatibility certification with Windows Server operating systems. HP ProLiant Servers listed in the Windows Server Catalog have been rigorously tested and certified with Windows Server 2008 R2. **NOTE:** For information on ProLiant servers certified for Windows server, visit: www.hp.com/go/wincert. **NOTE:** For details on Microsoft's server catalog and also a list of HP ProLiant certified servers, visit: www.windowsservercatalog.com.

Environment-friendly Products and Approach	**End-of-life Management and Recycling**	Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: http://www.hp.com/go/green. To recycle your product, please go to: http://www.hp.com/go/green or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner. The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/green. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.