

Overview

Microsoft Windows Server 2012 R2

Windows Server 2012 R2 captures Microsoft's experience of delivering global-scale cloud services to provide an enterprise-class server and cloud platform. It lets you optimize performance for your most important workloads and helps to protect against service outages with robust recovery options. It reduces complexity and cost with comprehensive automation plus storage and networking virtualization solutions based on industry-standard hardware. It lets you build, run, and scale applications that can move between your datacenter and the cloud, and allows you to provide your users with flexible remote access from virtually anywhere and any device while helping to protect corporate information.

Windows Server 2012 R2 delivers significant value around seven key capabilities:

1. Server Virtualization - new levels of performance and cross-platform support
2. Storage - high performance and resiliency at a fraction of the cost
3. Networking - hybrid networking with breakthrough levels of flexibility and performance
4. Server Management and automation - increased management efficiency for a diverse datacenter
5. Web and Application Platform - Modern apps build and deployed to scale on-premises and in the cloud
6. Access and Information Protection - Consistent and Flexible user access to corporate resources while protecting data
7. Virtual desktop Infrastructure - great performance, easy to deploy and cost-effective

For over 30 years, HP and Microsoft are combining the intelligence of HP ProLiant - the world's most self-sufficient servers, with the ease of management and virtualization capabilities of Microsoft Windows Server 2012 R2. HP delivers Windows Server 2012 R2 Support for ProLiant Servers, see support details at <http://www.hp.com/go/wincert>. In addition, HP offers OEM licensing for the following editions:

- [Datacenter edition](#) for highly-virtualized private cloud environments.
- [Standard edition](#) for non-virtualized or lightly virtualized environments.
- [Essentials edition](#) for small businesses with up to 25 users running on servers with up to two processors.
- [Foundation edition](#) for small businesses with up to 15 users running on single processor servers.

NOTE: For more information on HP's offering of Windows Server 2012 R2 products, go to: <http://www.hp.com/go/ws2012R2>

What's New

- Adding Pre-installed and Drop-in-box Part Numbers, as well as more language options for the 4 Editions (Essentials, Foundation, Standard and Datacenter)
- Adding Windows Server 2012 Downgrade Part Numbers
- Adding Windows Server 2012 Downgrade ROK Part Numbers
- Adding Pre-Installed Part Numbers to support the Unified Extensible Firmware Interface (UEFI) boot environment available for HP ProLiant Gen9 Servers
Important: HP Windows Server OEM Not Pre-Installed "NPI" and Reseller Option Kit "ROK" part numbers are compatible with both UEFI boot mode and Legacy boot mode, in other words, Windows Server NPI and ROK part numbers are compatible with Gen9, Gen8 and previous Servers.
- Adding Windows Server 2012 R2 Standard Edition Not Pre-Installed, English only, recommended for users that will install the OS and Applications without Internet Connection (e.g. .Net 3.5). The Multi-Language SKU strongly recommends internet connectivity while installing the OS and Applications.

Models

Microsoft Hardware Specifications for Foundation edition:

Windows Server 2012 R2	Foundation
CPU	Limited to 1 Proc; per server licensing
Min. CPU Req.	1.4 GHz x64
X64 RAM STD/ Max	2GB/32GB
ECC	Yes
NIC	multiple NICs supported
Internal optical bay drive allowed	Yes
Minimum OS Storage Footprint	32 GB*
SW RAID	Yes
Video	Yes
Keyboard, Mouse	Yes

NOTE: Microsoft Windows Server Foundation edition will limit the number of permissible user accounts and/or require certain Active Directory and domain configurations. If not properly configured, the software will generate warnings to correct the configuration. The warnings will alert you as to the behavior of the software in the absence of corrective measures, which may include the periodic shutdown of the server. The warnings and shutdowns will cease once the configuration is corrected. For more information about these features as they apply to the product, please review the product-specific documentation located on <http://www.microsoft.com/>.

* For systems with 16GB+ RAM more disk space will be required.

Windows Server 2012 R2 Foundation Edition 1P

Pre-Installed UEFI on Gen9 ProLiant Servers

NOTE: Unified Extensible Firmware Interface (UEFI) is an industry standard set of interfaces between the system firmware and the operating system, and between various components of the system firmware. UEFI enables numerous new capabilities, for more information please read the whitepaper [UEFI: successor to legacy BIOS](#).

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

Microsoft Windows Server 2012 R2 Foundation Edition FIO UEFI

782519-B21

Windows Server 2012 R2 Foundation Edition 1P

Pre-Installed on ProLiant Servers (for Gen8 and previous Servers)

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

Microsoft Windows Server 2012 R2 Foundation Edition FIO

755994-B21

Windows Server 2012 R2 Foundation Edition 1P

OS Not Pre-Installed

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

Microsoft Windows Server 2012 R2 Foundation Edition FIO Not Pre-installed

755995-B21

Windows Server 2012 R2 Foundation Edition 1P

Models

Reseller Option Kit

NOTE: Available for purchase from your local HP authorized reseller. Foundation 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.

Microsoft Windows Server 2012 R2 Foundation Edition ROK

748920-B21

Microsoft Hardware Specifications for Essentials edition:

Windows Server 2012 R2

	Essentials
CPU	Up to 2 Proc; Per server licensing
Min. CPU Req.	1.4 GHz x64
X64 RAM STD/ Max	X64 RAM STD/ Max
ECC	Yes
NIC	multiple NICs supported
Internal optical bay drive allowed	Yes
Minimum OS Storage Footprint	160 GB with a 60-GB system partition
SW RAID	Yes
Video	Optional
Keyboard, Mouse	Optional

Windows Server 2012 R2 Essentials Edition 1-2P Pre-Installed UEFI on Gen9 ProLiant Servers

NOTE: Unified Extensible Firmware Interface (UEFI) is an industry standard set of interfaces between the system firmware and the operating system, and between various components of the system firmware. UEFI enables numerous new capabilities, for more information please read the whitepaper [UEFI: successor to legacy BIOS](#).

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

Microsoft Windows Server 2012 R2 Essentials Edition FIO UEFI

782518-B21

Windows Server 2012 R2 Essentials Edition 1-2P Pre-Installed on ProLiant Servers (for Gen8 and previous Servers)

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

Microsoft Windows Server 2012 R2 Essentials Edition FIO

755992-B21

Windows Server 2012 R2 Essentials Edition 1-2P OS Not Pre-Installed

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

Microsoft Windows Server 2012 R2 Essentials Edition FIO Not Pre-installed

755993-B21

Windows Server 2012 R2 Essentials Edition 1-2P Reseller Option Kit

NOTE: Available for purchase from your local HP authorized reseller. Essentials Edition includes x64 DVD media

Models

and COA. Reseller must affix the COA to the server and may preinstall the OS before delivery of the server.

Microsoft Windows Server 2012 R2 Essentials Edition ROK

748919-B21

Microsoft Hardware Specifications for Standard edition:

Windows Server 2012 R2	Standard
CPU	Up to 2 Proc per licenses; no processor limit
Min. CPU Req.	1.4 GHz x64
X64 RAM STD/ Max	2GB/unlimited
ECC	Yes
NIC	multiple NICs supported; recommend Gigabit (10/100/1000baseT) Ethernet adapter
Internal optical bay drive allowed	Yes
Minimum OS Storage Footprint	32 GB*
SW RAID	Yes
Video	Yes; Super VGA (1024 x 768) or higher-resolution monitor
Keyboard, Mouse	Yes

* For systems with 16GB+ RAM more disk space will be required.

Windows Server 2012 R2 Standard Edition 2P Pre-Installed on Gen9 ProLiant Servers

NOTE: Unified Extensible Firmware Interface (UEFI) is an industry standard set of interfaces between the system firmware and the operating system, and between various components of the system firmware. UEFI enables numerous new capabilities, for more information please read the whitepaper [UEFI: successor to legacy BIOS](#).

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

Microsoft Windows Server 2012 R2 Standard Edition F10 UEFI

782520-B21

Windows Server 2012 R2 Standard Edition 2P Pre-Installed on ProLiant Servers (for Gen8 and previous Servers)

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

Microsoft Windows Server 2012 R2 Standard Edition F10

755996-B21

Windows Server 2012 R2 Standard Edition 2P OS Not Pre-Installed

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

Microsoft Windows Server 2012 R2 Standard Edition F10 Not Pre-installed E/F/I/G/S

755997-B21

Microsoft Windows Server 2012 R2 Standard Edition F10 Not Pre-installed English

815868-B21

Windows Server 2012 R2 Standard Edition 2P Reseller Option Kit

NOTE: Available for purchase from your local HP authorized reseller. Standard Edition includes x64 DVD media

Models

and COA. Reseller must affix the COA to the server and may preinstall the OS before delivery of the server.

Microsoft Windows Server 2012 R2 Standard Edition ROK

748921-B21

Windows Server 2012 Standard Edition 2P Additional License

NOTE: Windows Server 2012 Additional Licenses apply to Windows Server 2012 R2. Standard Edition includes COA. Sold only as a configurable option with a ProLiant server purchase.

Microsoft Windows Server 2012 Standard Edition 2P Additional License FIO

701596-DN1

Microsoft Hardware Specifications for Datacenter edition:

Windows Server 2012 R2	Datacenter
CPU	Up to 2 Proc per licenses; no processor limit
Min. CPU Req.	1.4 GHz x64
X64 RAM STD/ Max	2GB/unlimited
ECC	Yes
NIC	multiple NICs supported; recommend Gigabit (10/100/1000baseT) Ethernet adapter
Internal optical bay drive allowed	Yes
Minimum OS Storage Footprint	32 GB*
SW RAID	Yes
Video	Yes; Super VGA (1024 x 768) or higher-resolution monitor
Keyboard, Mouse	Yes

* For systems with 16GB+ RAM more disk space will be required.

Windows Server 2012 R2 Datacenter Edition OS 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.

Microsoft Windows Server 2012 R2 Datacenter Edition FIO Not Pre-installed

755998-B21

Windows Server 2012 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.

Microsoft Windows Server 2012 R2 Datacenter ROK

748922-B21

Windows Server 2012 Datacenter Edition 2P Additional License

NOTE: Windows Server 2012 Additional Licenses apply to Windows Server 2012 R2. Datacenter Edition includes COA. Sold only as a configurable option with a ProLiant server purchase.

Microsoft Windows Server 2012 Datacenter Edition 2P Additional License FIO

701601-DN1

Windows Server 2012 - Remote Desktop Services 5 Device CAL

NOTE: Windows Server 2012 CALs apply to Windows Server 2012 R2. All part numbers include 5 Device Client

Models

Access License (CAL) Packs; Sold from HP with or without a ProLiant server.

Microsoft Windows Server 2012 Remote Desktop Services 5 Device CAL 701604-DN1

Windows Server 2012 - Remote Desktop Services 5 User CAL

NOTE: Windows Server 2012 CALs apply to Windows Server 2012 R2. All part numbers include 5 User Client Access License (CAL) Packs; Sold from HP with or without a ProLiant server.

Microsoft Windows Server 2012 Remote Desktop Services 5 User CAL 701605-DN1

Windows Server 2012 50 User CAL

NOTE: Windows Server 2012 CALs apply to Windows Server 2012 R2. All part numbers include 50 User Client Access License (CAL) Packs; Sold from HP with or without a ProLiant server.

Microsoft Windows Server 2012 50 User CAL 759562-B21

Windows Server 2012 50 Device CAL

NOTE: Windows Server 2012 CALs apply to Windows Server 2012 R2. All part numbers include 50 Device Client Access License (CAL) Packs; Sold from HP with or without a ProLiant server.

Microsoft Windows Server 2012 50 Device CAL 759564-B21

Windows Server 2012 10 User CAL

NOTE: Windows Server 2012 CALs apply to Windows Server 2012 R2. All part numbers include 10 User Client Access License (CAL) Packs; Sold from HP with or without a ProLiant server.

Microsoft Windows Server 2012 10 User CAL 759561-B21

Windows Server 2012 10 Device CAL

NOTE: Windows Server 2012 CALs apply to Windows Server 2012 R2. All part numbers include 10 Device Client Access License (CAL) Packs; Sold from HP with or without a ProLiant server.

Microsoft Windows Server 2012 10 Device CAL 759563-B21

Windows Server 2012 5 User CAL

NOTE: Windows Server 2012 CALs apply to Windows Server 2012 R2. All part numbers include 5 User Client Access License (CAL) Packs; Sold from HP with or without a ProLiant server.

Microsoft Windows Server 2012 5 User CAL 701606-DN1

Windows Server 2012 5 Device CAL

NOTE: Windows Server 2012 CALs apply to Windows Server 2012 R2. All part numbers include 5 Device Client Access License (CAL) Packs; Sold from HP with or without a ProLiant server.

Microsoft Windows Server 2012 5 Device CAL 701607-DN1

Windows Server 2012 1 User CAL

NOTE: Windows Server 2012 CALs apply to Windows Server 2012 R2. All part numbers include 1 User Client Access License (CAL) Packs; Sold from HP with or without a ProLiant server.

Microsoft Windows Server 2012 1 User CAL 701608-DN1

Models

Windows Server 2012 1 Device CAL

NOTE: Windows Server 2012 CALs apply to Windows Server 2012 R2. All part numbers include 1 Device Client Access License (CAL) Packs; Sold from HP with or without a ProLiant server.

Microsoft Windows Server 2012 1 Device CAL

701609-DN1

Downgrade Windows Server 2012 Standard Edition Not Pre-Installed

NOTE: Only available when purchasing Windows Server 2012 R2 with an HP ProLiant server.

Microsoft Windows Server 2012 Standard Downgrade Kit FIO Not Pre-installed

756691-B21

Downgrade Windows Server 2012 Datacenter Edition Not Pre-Installed

NOTE: Only available when purchasing Windows Server 2012 R2 with an HP ProLiant server.

Microsoft Windows Server 2012 Datacenter Downgrade Kit FIO Not Pre-installed

756692-B21

Downgrade Windows Server 2008 R2

NOTE: For details on Windows Server 2008 R2 Downgrades please refer to the Windows Server 2012 QuickSpecs available at <http://www.hp.com/go/ws2012>.

Additional Features

Insight management software

HP Insight Control HP Insight Control, a product option, delivers essential infrastructure management that can help save time and money by making it easy to deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. HP Insight Control also supports Location and Power Discovery Services to automate many configuration, asset tracking, and power management tasks to speed implementation and prevent downtime. For more information, see: <http://www.hp.com/go/insightcontrol>.

HP Insight Control includes one year of 24 x 7 HP Software Technical Support and Update Service ensuring rapid access to HP support staff and proactive delivery of software updates. For more information about this service, see: <http://www.hp.com/services/insight>.

HP Integrated Lights Out (iLO)

HP iLO Essentials HP iLO Essentials license ideal for small and medium business customers. The specially created HP iLO Essentials (a subset of iLO Advanced functionality) saves SMB customers time and money, by ease of remote server set up through the interactive virtual media, lowering operational costs with remote access via the Integrated Remote Console, and faster time to resolution with email-based proactive notifications. With this newly designed HP iLO Essentials license SMB customers now have the option of a server management package solely design and priced just right for their IT environments. HP iLO Essentials is available on all HP ProLiant Gen8 e-series making this an ideal solution for small business owners. For more information, see: <http://www.hp.com/go/iLO/essentials>

HP iLO Advanced HP Integrated Lights-Out Advanced License a product option, providing smart remote server management without compromise. iLO Advanced unlocks the full set of remote administration functionality for all HP ProLiant servers by activating the full Virtual Keyboard Video and Mouse remote console, multiuser collaboration, console record and replay, GUI-based and scripted virtual media and virtual folders, and enhanced security and power management functionality. For more information, see: <http://www.hp.com/go/iLOADVANCE>

Software Technical Support

HP Foundation Care Services provide reliable and consistent support to keep your business up and running. Within Foundation Care we offer several ways for you to obtain support for your Microsoft solution. If your purchase includes the software licenses for Microsoft products, you receive 90 days' telephone support for as you set up your Microsoft software. You can purchase more extensive support to cover your requirements.

HP Software Technical Support provides remote software support services for Microsoft Server 2012 R2. With HP Software Technical Support, your IT staff receives fast and reliable access to HP Global Support Centers. HP technical resources work with your IT team to provide advice on software features and use, problem diagnosis and resolution, software defect identification, and access to patches.

This service also provides electronic access to comprehensive support information, allowing any member of your IT staff to locate essential product and support information.

Software Technical Support for Windows Server 2012 R2 is available from HP via multiple contact methods, including electronic media and telephone Software Technical Support includes assistance with:

- **24x7 access to technical resources** - Connect with HP Global Solution 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.

Additional Features

- **Escalation management** - Established escalation procedures enlist specialized expertise from HP to Microsoft Windows.
- **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

NOTE: For more information, visit: <http://www.hp.com/services/software-support>.

Microsoft Software Assurance

Boost productivity across your organization with new software versions, deployment planning services, 24x7 phone and web support, end-user training, unique desktop technologies and more, all in one cost-effective program.

With New Product Versions, every Microsoft product license that is covered by Software Assurance can be upgraded to the most recent version.

For example, if a new version of Microsoft Windows Server is made available during the term of your coverage, your licenses will automatically be upgraded to the new version. Customers that acquire perpetual licenses through Software Assurance can deploy the upgrades after their coverage has expired.

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

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 2012 R2.

NOTE: For information on ProLiant servers certified for Windows server, visit: <http://www.hp.com/go/wincert>.

NOTE: For details on Microsoft's server catalog and also a list of HP ProLiant certified servers, visit: <http://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

Additional Features

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.

Summary of Changes

Date	Version History	Action	Description of Change:
24-Jul-2015	From Version 6 to 7	Added	English and Korean language options added to 701601-xxx (Worldwide version only).
		Removed	LATAM Region was removed from option 755993-xxx, 756691-xxx, and 756692-xxx (Worldwide version only). Downgrade Windows Server 2012 Datacenter Edition Reseller Option Kit was removed from QuickSpecs.
01-Jun-2015	From Version 5 to 6	Added	Added Windows Server 2012 R2 Standard Edition Not Pre-Installed, English only, recommended for users that will install the OS and Applications without Internet Connection.
01-Dec-2014	From Version 4 to 5	Changed	What's New section was updated. Changes made throughout the entire Models section.
09-Sep-2014	From Version 3 to 4	Changed	Changes made throughout the entire Models section.
18-Mar-2014	From Version 2 to 3	Changed	Models was revised.
08-Feb-2014	From Version 1 to 2	Changed	Changes made throughout the entire Models section.

© Copyright 2015 Hewlett-Packard Development Company, L.P.

The information contained herein is subject to change without notice.

Windows and Microsoft are registered trademarks of Microsoft Corp., in the U.S.

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.