



## IBM Communications Server offers reliable and security-rich support for on demand networks

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### At a glance

The Distributed Communications Server family of products enables you to create an integrated enterprise-wide network that includes a mix of operating systems and computer hardware to connect business resources over wide geographic areas.

New functions include:

- Virtualization support for HPR connections such as Enterprise Extender
- APPN enhancements for Path Switch delay support
- SUSE Linux® Enterprise Server 11 (SLES 11) support
- IPv6 support for TN3270 Server, SNA API on Windows® servers
- Improved trace and logging options for Windows Remote API clients
- TN3270 device type and LU Model expanded support
- Java<sup>™</sup> for CPI-C application support for IBM® Remote API Client for Windows

Refer to the [Description](#) section for specific platform support.

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

### Overview

The IBM family of Distributed Communications Servers offers reliable and security-rich support for on demand networks, connecting users to enterprise host applications and data over diverse networks -- whether SNA, TCP/IP, intranet, extranet, or Internet. You choose applications based on your business needs, not on your network protocols.

IBM's Communications Servers can provide all-in-one communications services between workstations and host systems, as well as other workstations. Features include:

- Full-function SNA gateway
- TN3270E Server
- Telnet Redirector (not available on Communications Server for Windows)
- Rich set of SNA APIs, including LUA (SLI, RUI), APPC, and CPI-C
- Advanced Peer-to-Peer Networking® (APPN), including end node and network node

- Branch extender
- Dependent LU requester (DLUR)
- High performance routing (HPR)
- Enterprise Extender (HPR over TCP/IP)
- Support for many types of LAN and WAN connections, including Ethernet and token ring

With this release, IBM introduces product feature and functional parity for all of the products in the IBM family of Distributed Communications Servers:

- IBM Communications Server for Windows
- IBM Communications Server for AIX®
- IBM Communications Server for Linux
- IBM Communications Server for Linux on System z®

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## Key prerequisites

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### AIX

- IBM Power System hardware system
- AIX 5 or AIX 6.1 operating system

### Linux

- Intel® architecture 'i686' or 'x86\_64' hardware system
- IBM Power System hardware system
- IBM System z or zSeries® hardware system

### Windows

- Intel architecture 'i686' or 'x86\_64' hardware system (running 32-bit Windows operating system)

For details, refer to the [Hardware requirements](#) and [Software requirements](#) sections.

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## Planned availability date

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May 14, 2009 (electronic software delivery and media and documentation).

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## Description

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The IBM family of Distributed Communications Servers helps connect employees, customers, and trading partners across multiprotocol networks, enhancing business flexibility by extending existing host applications to the Internet. The Communications Server products in this release have parity with one another in the platforms they support. With the Version 6.4.0 release, Windows, AIX, Linux, and Linux on System z platforms can provide the same level of functionality for the SNA connectivity requirements.

For details about features and functions, visit

<http://www.ibm.com/software/network/commserver/>

## **New functions in Communications Server for AIX, Communications Server for Linux, Communications Server for Linux on System z, and Communications Server for Windows:**

### **Virtualization support HPR connections:**

Distributed Communications Server family of products provide improvements to HPR connections, especially Enterprise Extender (HPR/IP), when running in a virtual operating system environment. When a Communications Server is running in a virtual system like VMWare, XEN, or Microsoft® Virtual Server, there may be times when the real-time clock is not as accurate as needed. The new improvement uses Progressive ARB to handle directly attached links, including Connections Network links, to rely on buffer resources and not the real-time clock. This will provide more reliable connectivity and improved performance between a virtual system and a partner SNA node when the system is put under a heavy load.

### **APPN enhancement for Path Switch delay support**

The Distributed Communications Server family of products now provides a setting for the minimum delay period, in seconds, before an HPR link will perform a path switch. When an HPR connection is determined to need a new route calculation, a minimum delay can be set so that excessive Path Switch occurrences are prevented. This helps keep the level of network traffic to a minimum as trouble spots in the network are found and corrected.

### **SUSE Linux Enterprise Server 11 support**

For the Linux platforms that use Communications Server for Linux (i686, x86\_64, ppc64), and the Communications Server for Linux on System z (s390x), and the Remote API Linux clients, support for the SLES 11 release has been added.

### **IPv6 support for TN3270 Server, SNA API on Windows servers**

With this release, the Communications Server for Windows adds support for IPv6 clients for the TN3270 Server and SNA API server. Previous releases of the Communications Server products for AIX, Linux, and Linux on System z platforms have had support for IPv6 clients connecting to TN3270 Server and Remote API clients.

### **Improved trace and logging options for Windows Remote API clients**

The Windows Remote API client now has a configurable setting for activating traces, logs, and messages. This provides an easier-to-use interface to manage the Windows clients when connected to an AIX or Linux server.

### **TN3270 device type and LU Model expanded support (added to Communications Server for AIX, Linux, and Linux on System z)**

You can specify a mapping between TN3270 device types and the LU models that Communications Server for Linux should request from the host when these devices connect through Communications Server for Linux TN Server using DDDL. This allows you to use the most appropriate LU model for each type of device.

### **Java for CPI-C application support for IBM Remote API Client for Windows (added to Communications Server for AIX, Linux, and Linux on System z)**

The Windows, AIX, and Linux Communications Servers already have Java for CPI-C application support. Also, the AIX and Linux Remote API clients have the Java support for making CPI-C calls. This release adds this Java for CPI-C support to the Windows Remote API client. This allows Java applications to make calls to CPI-C verbs on the Windows platforms.

### **Application program interfaces:**

As previously announced, the following APIs are included to provide support for existing programs used on previous versions of SNA Server/6000 and Communications Server for AIX.

- Generic SNA
- LU 0

- Operating System Subroutines (LU types 1, 2, 3, and 6.2)
- Library Subroutines for TP Conversations (LU types 1, 2, 3, and 6.2)
- Management Services (MS)
- Library Subroutines for Network Management (NMVTs)

Because the above APIs will not be enhanced and will be provided "as-is," with no support, it is recommended that new applications be developed with these enhanced APIs:

- LUA API enables application programmers to write applications that communicate with host applications at the request unit and response unit (RU) level. LUA supports LU0, 1, 2, or 3 communications with the host.
- NOF (Node Operator Facility) can be used to write applications that administer configuration and management resources.
- The CPI-C API provides CPI-C 2.0+ support and is binary compatible with existing CPI-C applications written for earlier versions of Communications Server for AIX.
- The APPC API supports LU 6.2 communications using either independent sessions for peer-to-peer communications or dependent sessions for host communications.
- The CSV (Common Service Verb) API provides utility verbs that enable an application program to perform functions such as character set conversion and trace file control.
- The MS (Management Services) API enables an application to communicate with other MS products in an APPN network.
- The Host Access Class Library (Host Access API) is a Java API that provides the ability for users to develop 3270, 5250, or VT Java applications. Host Access API for Java provides a core set of classes and methods that allow the development of platform-independent applications that can access host information at the data stream level.

Existing customers that are interested in purchasing additional licenses but prefer to continue to use a previous release of Communications Servers can access the media in Fix Central.

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## Product positioning

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Communications Server provides an essential foundation for networked computing by supporting the most widely used networking technologies, enabling you and business partners to build client/server applications independent of networking protocol or hardware.

With Communications Server, you can modernize your network without impacting your existing SNA application. You can also modernize your application and take advantage of service-oriented architecture and Java without changing your host applications. IBM experience with SNA, TCP/IP, and communications servers provides you with a high-performance, high-quality communications solution for enterprises with the potential to become an On Demand Business and to have virtualized environments.

Communications Server for AIX, Communications Server for Linux, and Communications Server for Linux on System z are most likely to be deployed in a central location. These products support larger TN3270 Server, Remote API client/server, and distributed connections across the enterprise. The cost to manage and maintain in a central place make these communications servers cost-effective by keeping SNA resources centralized.

Communications Server for Windows can be deployed in distributed branches or at a central location. The branch environment often has Windows servers, and these make ideal platforms for the Communications Server for Windows. With the advent of more virtualized servers being deployed, Communications Server V6.4 will provide the performance needed for handling the resource allocation in these environments.

### Licensing notes for V6.4

The licensing options provided for IBM Communications Servers are designed to optimally address the majority of our customers' needs. However, if the licensing options for any of the four platforms below do not support your architecture, contact your IBM representative to discuss alternative options.

## Windows and AIX

IBM Communications Server for Windows and IBM Communications Server for AIX licenses consist of two components, Server and User. A Server license is required for each instance of an installed Communications Server. The Server must be accompanied by the number of User licenses for persons or machines that use the communications functions of the Server. Conversely, every User license must be associated with a Server license. Note that multiple User licenses can be associated with a single Server license.

Any customer that does not have a license for at least one Server or has only Server licenses with no User licenses is considered noncompliant and is encouraged to contact their IBM representative to correct their entitlement.

## Linux

IBM Communications Server for Linux is also licensed on a concurrent User basis. A User license is required for each person or machine using the services of the Communications Server, concurrently. Customers of IBM Communications Server for Linux are only required to purchase User licenses.

## Linux on System z

There are two options for licensing the IBM Communications Server for Linux on System z. Customers can purchase either User licenses or Processor Value Units.

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## Statement of direction

In a future release of Communications Server for AIX and Communications Server for Windows, support for AnyNet® is planned to be discontinued and the function will be removed from the product. Customers may implement Enterprise Extender (EE) or Remote API Client as the replacement for AnyNet.

All statements regarding IBM future direction or intent, including current product plans, are subject to change or withdrawal without notice and represent goals and objectives only. All information is provided for informational purposes only, on an "as is" basis, without warranty of any kind.

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## Availability of national languages

Product description	Language	GA date
Comm Server for AIX V6.4.0	Multilingual (English International, French, Korean, Chinese - Simplified, Spanish, Portuguese-Brazilian, German, Japanese, Chinese - Traditional)	May 14, 2009
Comm Svr Linux V6.4.0	Multilingual (French, Korean, Chinese - Simplified, Spanish, Portuguese-Brazilian, German, Japanese, Chinese - Traditional,	May 14, 2009

CommSvr Linux System z V6.4.0	English) Multilingual (French, Korean, Chinese - Simplified, Spanish, Portuguese-Brazilian, German, Japanese, Chinese - Traditional, English)	May 14, 2009
IBM Comm Server Windows V6.4.0	Multilingual (English International, French, Korean, Chinese - Simplified, Spanish, Portuguese-Brazilian, German, Japanese, Chinese - Traditional, Italian)	May 14, 2009

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## Program number

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Program number	VRM	Program name
5765-E51	6.4.0	IBM Communications Server for AIX
5724-I33	6.4.0	IBM Communications Server for Linux
5724-I34	6.4.0	IBM Communications Server for Linux on System z
5639-F25	6.4.0	IBM Communications Server for Windows

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## Offering Information

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Product information is available via the Offering Information Web site

<http://www.ibm.com/common/ssi>

Also, visit the Passport Advantage® Web site

<http://www.ibm.com/software/passportadvantage>

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## Publications

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No publications are shipped with these products.

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**Specified operating environment**

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**Hardware requirements****For AIX server or client:**

An IBM Power System machine supported by one of the AIX distributions listed in the [Software requirements](#) section.

**For Windows server:**

An Intel Pentium® II, or higher, 32-bit system supported by one of the Microsoft operating systems listed in the [Software requirements](#) section.

**For Linux client:**

- A Pentium II, or higher, system; 64-bit AMD system; or Intel Xeon® EM64T-based system supported by one of the Linux operating systems listed in the [Software requirements](#) section. The "uname -m" command will report 'i686' or 'x86\_64'.
- A 64-bit IBM Power System server supported by one of the 2.6 kernel Linux operating systems listed in the [Software requirements](#) section. The "uname -m" command will report 'ppc64'.
- A 31- or 64-bit System z9® or IBM eServer<sup>™</sup> zSeries server supported by one of the Linux operating systems listed in the [Software requirements](#) section. The "uname -m" command will report 's390' or 's390x'.

**For a Linux server:**

For a System z server: A 31-bit or a 64-bit System z server supported by one of the Linux distributions listed in the [Software requirements](#) section. Use the "uname -m" Linux command to verify the CPU class. It must report "s390" to indicate a 31-bit environment or "s390x" to indicate a 64-bit environment.

For an Intel Linux server (32-bit): A workstation with an Intel Pentium II, or higher, processor (32-bit) supported by one of the Linux distributions listed in the [Software requirements](#) section. Use the "uname -m" command to verify the CPU class. It must report "i686" to indicate a Pentium II, or higher, system.

For a Linux server x86\_64 (64-bit): A workstation with either AMD64 or Intel EM64T processors supported by Linux distributions listed in the [Software requirements](#) section. Use the "uname -m" command to verify the CPU class. It must report "x86\_64" to indicate the proper type of system.

For an IBM Power System server or client: A 64-bit platform system supported by one of the Linux distributions listed in the [Software requirements](#) section. Use the "uname -m" command to verify the CPU class indicates ppc64 for a Linux platform that supports a System p® server.

**For a Windows 32-bit client**

An Intel Pentium II, or higher, 32-bit system supported by one of the Microsoft operating systems listed in the [Software requirements](#) section.

**For a Windows 64-bit client**

An AMD64 or Intel EM64T system supported by one of the Microsoft Windows operating systems listed in the [Software requirements](#) section.

**Windows**

Communications Server for Windows runs on Intel-based systems supported by Windows Server 2003, Windows XP Professional, Windows Server 2008 32-bit, or Windows Vista 32-bit operating systems. A PC with an Intel-based PC (x86 or x86\_64 processor) at 500 MHz and 256 MB of RAM is the minimum recommended server hardware. Depending on the network environment

and Windows platform used (workstation versus server), a faster processor and larger memory may be necessary.

- Disk space of 5 MB is required on a startup drive and 175 MB on any hard disk drive for permanent use.
- SNA API clients run in 32-bit mode or 32-bit compatibility mode of 64-bit environments on hardware supported by Windows XP, Windows Server 2003, Windows Server 2008, or Windows Vista.
- Remote Administration clients run on a 32-bit operating system on Intel-based hardware architecture supported by Windows XP, Windows Server 2003, Windows Server 2008 (32-bit only), or Windows Vista.

Communications adapters: One or more network communication adapters (and appropriate cables) may be required. Communications Server for Windows is compatible with the following adapters:

- IBM WAN adapters: Multiprotocol communications adapters (MPA-PCI) for SDLC over leased and switched connections.
- SDLC and X.25 adapter support is also provided by non-IBM adapter vendors. Contact the adapter vendor for specific information.
- IBM and non-IBM adapters (token ring, Ethernet, ATM, and FDDI): LAN adapters using NDIS supported by Microsoft Windows for SNA LLC2, AnyNet, and Enterprise Extender.
- SNA over IP adapters (LAN, WAN, and channel): Adapters for IP traffic supported by Microsoft Windows for AnyNet and Enterprise Extender.

**Note:** Communications Server for Windows is also compatible with a wide variety of LAN adapters, including many adapters with NDIS drivers supported by Windows. Not all of the adapters are supported on Windows XP, Windows 2003, Windows Server 2008, and Windows Vista platforms. Contact the adapter vendor for specific information. For additional information, visit

<http://www.ibm.com/software/network/commserver/>

### **Software requirements**

#### **AIX**

For an AIX server or client, one of the following AIX operating systems:

- AIX 5.3 TL-5, or later
- AIX 6.1, or later

For a current list of technical requirements, visit

<http://www.ibm.com/software/network/commserver/aix/sysreqs/>

#### **Linux and Linux on System z**

For Linux server, one of the following operating systems:

- Red Hat Enterprise Linux 4 (RHEL 4)
- Red Hat Enterprise Linux 5 (RHEL 5)
- SUSE Linux Enterprise Server 9 (SLES 9) SP2, or later
- SUSE Linux Enterprise Server 10 (SLES 10) SP1, or later
- SUSE Linux Enterprise Server 11 (SLES 11)

The Linux server requires Linux Streams, LiS 2.19.0. This LiS package can be obtained from

<ftp://ftp.wanware.com/pub/LiS/LiS-2.19.0.tgz>

For a current, up-to-date status of technical requirements, visit

[http://www.ibm.com/software/network/commserver/z\\_lin/sysreqs/](http://www.ibm.com/software/network/commserver/z_lin/sysreqs/)

- Red Hat Enterprise Linux 4



- Red Hat Enterprise Linux 5
- SUSE Linux Enterprise Server 9 SP2, or later
- SUSE Linux Enterprise Server 10 SP1, or later
- SUSE Linux Enterprise Server 11

For Microsoft Windows client, one of the following operating systems:

- Windows XP Professional
- Windows Server 2003 Standard Edition or Enterprise Edition
- Windows Server 2008
- Windows Vista

For Microsoft Windows 64-bit clients, one of the following operating systems:

- Microsoft Windows XP Professional x64 Edition
- Microsoft Windows Server 2003 x64 Edition
- Microsoft Windows Server 2008 x64
- Microsoft Vista x64

For a current, up-to-date status of technical requirements, visit

<http://www.ibm.com/software/network/commserver/linux/sysreqs/>

## Windows

Communications Server for Windows requires one of the following 32-bit operating systems. The hardware may be a 32- or 64-bit system:

- Windows XP Professional
- Windows Server 2003 Standard Edition or Enterprise Edition
- Windows Vista Professional, Enterprise, or Ultimate
- Windows Server 2008 Standard Edition or Enterprise Edition

SNA API clients require one of the following 32-bit mode or 32-bit compatibility mode in 64-bit environments:

- Windows XP Professional
- Windows Server 2003 Standard or Enterprise Edition
- Windows Vista Professional, Enterprise, or Ultimate
- Windows Server 2008 Standard Edition or Enterprise Edition

Remote Administration client requires one of the following 32-bit operating systems:

- Windows XP Professional
- Windows Server 2003 Standard Edition or Enterprise Edition
- Windows Vista Professional, Enterprise, or Ultimate
- Windows Server 2008 Standard Edition or Enterprise Edition

Customer responsibilities: The customer is responsible for acquiring all prerequisite software and hardware associated with this program.

Installability: Software Maintenance, previously referred to as Software Subscription and Technical Support, is included in the Passport Advantage Agreement. Installation and technical support is provided by the Software Maintenance offering of the IBM International Passport Advantage Agreement. This fee service enhances customer productivity, with voice and electronic access into IBM support organizations.

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other

information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

### ***Limitations***

The HTTPS protocol for secure connections between Red Hat Enterprise Linux 2.1 clients and Communications Server is not supported.

For additional information, refer to usage restrictions in the [Terms and conditions](#) section of this announcement, or to the License Information document that is available on the IBM Software License Agreement Web site

<http://www.ibm.com/software/sla/sladb.nsf>

## **Planning information**

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### ***Customer responsibilities***

The customer is responsible for acquiring all prerequisite software and hardware associated with this program.

### ***Installability***

Software Maintenance, previously referred to as Software Subscription and Technical Support, is included in the Passport Advantage Agreement. Installation and technical support is provided by the Software Maintenance offering of the IBM International Passport Advantage Agreement. This fee service enhances customer productivity, with voice and electronic access into IBM support organizations.

### ***Packaging***

Communications Server for AIX, Linux, and Linux on System z are shipped with the following:

Three CDs for each server product:

- Quick Start Guide
- Quick Start CD
- Server CD
- Remote API Client CD

Communications Server for Windows is shipped with the following:

- Product CD
- Quick Start Guide

## **Security, auditability, and control**

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Communications Server for AIX does not include any security and auditability features.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

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## **Software Services**

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

To locate an IBM Business Partner, visit:

<http://www.ibm.com/software/solutions/isv>

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## Ordering information

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This product is only available via Passport Advantage. It is not available as shrinkwrap.

### Product information

Licensed function title	Product group	Product category
IBM Communications Server for AIX IBM	Application Integration Middleware Other	App Integration Middleware Other
IBM Communications Server for Linux	IBM Communications Server	Communications Server
IBM Communications Server for Linux on System z	IBM Communications Server	Communications Server
IBM Communications Server for Windows	IBM Communications Server	Communications Server
Program name	PID number	Charge unit description
IBM Communications Server for AIX	5765-E51	PA Per Concurrent User
IBM Communications Server for AIX	5765-E51	PA Per Server
IBM Communications Server for Linux	5724-I33	PA Per Concurrent User
IBM Communications Server for Linux on System z	5724-I34	PROCESSOR-Day(s)
IBM Communications Server for Linux on System z	5724-I34	Per Concurrent User
IBM Communications Server for Linux on System z	5724-I34	Per Processor Value Unit (PVU)
IBM Communications Server for Windows	5639-F25	PA Per Concurrent User
IBM Communications Server for windows	5639-F25	PA Per Server

### Charge metrics definitions

#### Processor Value Unit (PVU)

PVU is the unit of measure by which this program is licensed. PVU entitlements are based on processor families (vendors and brands). A Proof of Entitlement (PoE) must be obtained for the appropriate number of PVUs based on the level or tier of all processor cores activated and available for use by the program on the server. Some programs allow licensing to less than the full capacity of the server's activated processor cores, sometimes referred to as sub-capacity licensing. For programs which offer sub-capacity licensing, if a server is partitioned utilizing eligible partitioning technologies, then a PoE must be obtained for the appropriate number of PVUs based on all activated processor cores available for use in each partition where the program runs or is managed by the program. Refer to the International Passport Advantage Agreement Attachment for Sub-Capacity Terms or the program's License Information to determine applicable sub-capacity terms. The PVU entitlements are specific to the program and may not be exchanged, interchanged, or aggregated with PVU entitlements of another program.

For general overview of PVUs for processor families (vendors and brands), go to

[http://www-306.ibm.com/software/lotus/passportadvantage/pvu\\_licensing\\_for\\_customers.html](http://www-306.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html)

To calculate the exact PVU entitlements required for the program, go to

<https://www-112.ibm.com/software/howtobuy/passportadvantage/valueunitcalculator/vucalc.wss>

## Server

Server is the unit of measure by which this program is licensed. A Server is a computer system that executes requested procedures, commands, or applications to one or more user or client devices. A Proof of Entitlement (PoE) must be obtained for each server regardless of the number of processor cores or partitions in the server on which the program runs or each server managed by the program. Where blade technology is employed, each blade is considered a separate server.

## Concurrent User

Concurrent User is the unit of measure by which this program is licensed. A Concurrent User is a shared user access to the program within or outside of your enterprise. The program may be installed only on one computer or one server. The total number of Concurrent Users simultaneously accessing the program at any moment in time may not exceed the highest number of Concurrent Users authorized by the PoE. You must have an entitlement for each Concurrent User simultaneously accessing the program or any program component in any manner directly or indirectly (for example, via a multiplexing program, device, or application server) through any means.

## Passport Advantage program licenses

### Communications Server for AIX

Part description	Part number
IBM Communications Server for AIX	
Communications Server for AIXServer Annual SW S&S Rnw1	E1BDMLL
Communications Server for AIXServer Lic + SW S&S 12 Mo	D5BDJLL
Communications Server for AIXServer SW S&S Reinstate 12 Mo	D5BDNLL
Communications Server for AIXUser Annual SW S&S Rnw1	E1BCWLL
Communications Server for AIXUser Lic + SW S&S 12 Mo	D5BCTL
Communications Server for AIXUser SW S&S Reinstate 12 Mo	D5BCXLL

### Communications Server for Linux

Part description	Part number
IBM Communications Server for Linux	
IBM Communications Server for Linux User Annual SW S&S Rnw1	E01A4LL
IBM Communications Server for Linux User Lic + SW S&S 12 Mo	D53SBLL
IBM Communications Server for Linux User SW S&S Reinstate 12 Mo	D53SCLL

### IBM Communications Server for Linux on System z

Part description	Part number
IBM Communications Server for Linux on System z	
Comm Svr Linux Sys z Processor Value Unit (PVU) Annual SW S&S Rnw1	E02UYLL
Comm Svr Linux Sys z Processor Value Unit (PVU) Lic + SW S&S 12 Mo	D594NLL
Comm Svr Linux Sys z Processor Value Unit (PVU) SW S&S Reinstate 12 Mo	D594PLL
Communication Server Linux Sys z Concurrent User(s)	E01A3LL

Annual SW S&S Rnw1  
Communication Server Linux Sys z Concurrent User(s) Lic D53S8LL  
+ SW S&S 12 Mo  
Communication Server Linux Sys z Concurrent User(s) SW D53S9LL  
S&S Reinstate 12 Mo

#### IBM Communications Server for Windows

Part description	Part number
IBM Communications Server for Windows	
IBM Comm for windows PA Per Concurrent User Annual SW S&S Rnw1	E1BD5LL
IBM Comm for windows PA Per Concurrent User Lic + SW S&S 12 Mo	D5BD2LL
IBM Comm for windows PA Per Concurrent User SW S&S Reinstate 12 Mo	D5BD6LL
IBM Comm for windows PA Per Server Annual SW S&S Rnw1	E1BDWLL
IBM Comm for windows PA Per Server Lic + SW S&S 12 Mo	D5BDTLL
IBM Comm for windows PA Per Server SW S&S Reinstate 12 Mo	D5BDXLL

#### Passport Advantage Trade-up licenses

##### Communications Server for AIX

Precursor product	Trade-up product	Part number
IBM Communications Server for AIX		
Qualified Competitor	Communications Server for AIXSvr from Comp Trdup Lic + SW S&S 12 Mo	D5D22LL
Qualified Competitor	Communications Server for AIXUser from Comp Trdup Lic + SW S&S 12 Mo	D5D21LL

##### Communications Server for Linux

Precursor product	Trade-up product	Part number
IBM Communications Server for Linux		
Comm Server Lnx from CS any platform TRDUP LIC+SW	Comm Server Lnx from CS Any Platform Trdup Lic + SW S&S 12 Mo	D53SDLL

##### IBM Communications Server for Linux on System z

Precursor product	Trade-up product	Part number
IBM Communications Server for Linux on System z		
Competitive Product	Comm Svr Linux Sys z Conc Ur fr Comp Prod Trdup Lic + SW S&S 12 Mo	D53SALL

##### IBM Communications Server for Windows

Precursor product	Trade-up product	Part number
IBM Communications Server for Windows		
IBM Communications Server for WIN NT	IBM Comm for wind Concurrent User(s)tradeup Competitive Lic + SW S&S 12 Mo	D5D20LL
IBM Communications Server for WIN NT	IBM Comm for windows Server(s) tradeup from Competitive Lic + SW S&S 12 Mo	D5D1ZLL

## Passport Advantage supply

Program name/description	Part number
Comm Server for AIX V6.4.0	
IBM Communications Server for AIX V6.4 Media Pack Multilingual	BM05FML
Comm Svr Linux V6.4.0	
IBM Communications Server for Linux V6.4 Media Pack Multilingual	BM05HML
CommSvr Linux System z V6.4.0	
IBM Communications Server for Linux on System z 6.4 Media Pack Multilingual	BM05IML
IBM Comm Server Windows V6.4.0	
IBM Comm Server Windows V6.4 Media Pack Multilingual	BM05GML

## Passport Advantage customer: Media pack entitlement details

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Customers with active maintenance or subscription for the products listed are entitled to receive the corresponding media pack.

### CommSvr Linux System z V6.4.0

Entitled maintenance offerings description	Media packs description	Part number
IBM Communications Server for Linux on System z Per Concurrent User	IBM Communications Server for Linux on System z 6.4 Media Pack Multilingual	BM05IML
IBM Communications Server for Linux on System z per Value Unit	IBM Communications Server for Linux on System z 6.4 Media Pack Multilingual	BM05IML

### IBM Comm Server Windows V6.4.0

Entitled maintenance offerings description	Media packs description	Part number
CMSVRUSVNT	IBM Comm Server Windows V6.4 Media Pack Multilingual	BM05GML
COMMSVRNT	IBM Comm Server Windows V6.4 Media Pack Multilingual	BM05GML

### Comm Server for AIX V6.4.0

Entitled maintenance offerings description	Media packs description	Part number
COMM SERVER AIX USER	IBM Communications Server for AIX V6.4 Media Pack Multilingual	BM05FML
Communications Server for AIX	IBM Communications Server for AIX V6.4 Media Pack Multilingual	BM05FML

### Comm Svr Linux V6.4.0

Entitled maintenance offerings description	Media packs description	Part number
IBM Communications Server for Linux Per User	IBM Communications Server for Linux V6.4 Media Pack Multilingual	BM05HML

### ***Withdrawal of previous Passport Advantage part numbers***

Effective June 11, 2009, IBM will withdraw from marketing the following products licensed under the IBM International Program License Agreement. A replacement product and availability date is listed if one is available.

withdrawn products		Replacement products		
Part number	Product name	Part number	Product name	Availability date
5639-F25	IBM Communications Server for Windows V6.1.2			
BE6RTBP	COMMUNICATIONS SERVER V6.1.2 FOR WINDOWS CD MP BP	BM05GML	IBM Comm Server windows V6.4 Media Pack Multilingual	May 14, 2009
BE6RTNA	COMMUNICATIONS SERVER V6.1.2 FOR WINDOWS CD MP ENGLISH	BM05GML	IBM Comm Server windows V6.4 Media Pack Multilingual	May 14, 2009
BE6RTFR	COMMUNICATIONS SERVER V6.1.2 FOR WINDOWS CD MP FRENCH	BM05GML	IBM Comm Server windows V6.4 Media Pack Multilingual	May 14, 2009
BE6RTDE	COMMUNICATIONS SERVER V6.1.2 FOR WINDOWS CD MP GERMAN	BM05GML	IBM Comm Server windows V6.4 Media Pack Multilingual	May 14, 2009
BE6RTIT	COMMUNICATIONS SERVER V6.1.2 FOR WINDOWS CD MP ITALIAN	BM05GML	IBM Comm Server windows V6.4 Media Pack Multilingual	May 14, 2009
BE6RTJA	COMMUNICATIONS SERVER V6.1.2 FOR WINDOWS CD MP JAPANESE	BM05GML	IBM Comm Server windows V6.4 Media Pack Multilingual	May 14, 2009
BE6RTKO	COMMUNICATIONS SERVER V6.1.2 FOR WINDOWS CD MP KOREAN	BM05GML	IBM Comm Server windows V6.4 Media Pack Multilingual	May 14, 2009
BE6RTSC	COMMUNICATIONS SERVER V6.1.2 FOR WINDOWS CD MP SCH	BM05GML	IBM Comm Server windows V6.4 Media Pack Multilingual	May 14, 2009
BE6RTES	COMMUNICATIONS SERVER V6.1.2 FOR WINDOWS CD MP SPANISH	BM05GML	IBM Comm Server windows V6.4 Media Pack Multilingual	May 14, 2009
BE6RTTC	COMMUNICATIONS SERVER V6.1.2 FOR WINDOWS CD MP TCH	BM05GML	IBM Comm Server windows V6.4 Media Pack Multilingual	May 14, 2009
5724-I33	Communications Server for Linux V6.2.1			
BM03BML	Comm Svr Linux Linux for x86Series Intel-based servers V6.2.1 Mass Market	BM05HML	IBM Communications Server for Linux V6.4 Media Pack Multilingual	May 14, 2009
5765-E51	Communications Server for AIX V6.1.0			
BM009ML	COMMUNICATIONS SERVER V6.1 FOR AIX CD MEDIA PACK MULTILINGUAL	BM05FML	IBM Communications Server for AIX V6.4 Media Pack Multilingual	May 14, 2009

Orders for these part numbers will not be accepted after the stated effective date of withdrawal, nor will normal marketing activities or educational support be available unless previous agreement exists between the customer and IBM.

## On/Off CoD

### IBM Communications Server for Linux on System z

Part description	Part number
Comm Svr Linux Sys z Processor Day Per Use-Day OOCOD Temp Use Chrg	D58HZLL

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Program name	Program number	Form number
Communications Server for AIX	5765-E51	L-JLSH-7NVQXX
Communications Server for Linux	5724-I33	L-JLSH-7NVR7Y
IBM Communications Server for Linux on System z	5724-I34	L-JLSH-7NVQ9H
IBM Communications Server for windows	5639-F25	L-JLSH-7NVQXX

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Product name



Communications Server for AIX	Yes
Communications Server for Linux	Yes
IBM Communications Server for Linux on System z	Yes
IBM Communications Server for Windows	Yes

### ***Volume orders (IVO)***

No

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### ***On/Off CoD***

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