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

Table of contents

<table>
<thead>
<tr>
<th>1</th>
<th>At a glance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Overview</td>
</tr>
<tr>
<td>2</td>
<td>Key prerequisites</td>
</tr>
<tr>
<td>2</td>
<td>Planned availability date</td>
</tr>
<tr>
<td>2</td>
<td>Description</td>
</tr>
<tr>
<td>4</td>
<td>Product positioning</td>
</tr>
<tr>
<td>5</td>
<td>Statement of direction</td>
</tr>
<tr>
<td>5</td>
<td>Availability of national languages</td>
</tr>
<tr>
<td>6</td>
<td>Program number</td>
</tr>
<tr>
<td>6</td>
<td>Offering Information</td>
</tr>
<tr>
<td>6</td>
<td>Publications</td>
</tr>
<tr>
<td>7</td>
<td>Technical information</td>
</tr>
<tr>
<td>11</td>
<td>Ordering information</td>
</tr>
<tr>
<td>16</td>
<td>Terms and conditions</td>
</tr>
<tr>
<td>17</td>
<td>Prices</td>
</tr>
<tr>
<td>17</td>
<td>Announcement countries</td>
</tr>
</tbody>
</table>

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™ for CPI-C application support for IBM® Remote API Client for Windows

Refer to the Description section for specific platform support.

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®

### Key prerequisites

**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.

### Planned availability date

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

Availability of programs with encryption algorithm in France is subject to French government approval.

Cryptography in this product is limited to password encryption, authentication, or digital signature.

Refer to the complete letter for national language availability.

### Description

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

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 DDDLU. 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.

Product positioning

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.

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.

Availability of national languages

<table>
<thead>
<tr>
<th>Product description</th>
<th>Language</th>
<th>GA date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comm Svr Linux V6.4.0</td>
<td>Multilingual (French, Korean, Chinese - Simplified, Spanish, Portuguese-Brazilian, German, Japanese, Chinese - Traditional)</td>
<td>May 14, 2009</td>
</tr>
</tbody>
</table>
CommSvr Linux System z V6.4.0  Multilingual May 14, 2009
(French,
Korean,
Chinese -
Simplified,
Spanish,
Portuguese-Brazilian,
German,
Japanese,
Chinese -
Traditional,
English)

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

Program number

<table>
<thead>
<tr>
<th>Program number</th>
<th>VRM</th>
<th>Program name</th>
</tr>
</thead>
<tbody>
<tr>
<td>5765-E51</td>
<td>6.4.0</td>
<td>IBM Communications Server for AIX</td>
</tr>
<tr>
<td>5724-I33</td>
<td>6.4.0</td>
<td>IBM Communications Server for Linux</td>
</tr>
<tr>
<td>5724-I34</td>
<td>6.4.0</td>
<td>IBM Communications Server for Linux on System z</td>
</tr>
<tr>
<td>5639-F25</td>
<td>6.4.0</td>
<td>IBM Communications Server for Windows</td>
</tr>
</tbody>
</table>

Offering Information

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

Publications

No publications are shipped with these products.
Technical information

Specified operating environment

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™ 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.
- 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


**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


**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


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


- 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


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


**Planning information**

**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**

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.

**Global Technology Services**

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings for the efficient installation, implementation, or integration of this product.
Ordering information

For ordering information, consult your IBM representative or authorized IBM Business Partner, or visit


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

Product information

<table>
<thead>
<tr>
<th>Licensed function title</th>
<th>Product group</th>
<th>Product category</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Communications Server for AIX</td>
<td>IBM</td>
<td>App</td>
</tr>
<tr>
<td>IBM Communications Server for Linux</td>
<td>IBM</td>
<td>Communications Server</td>
</tr>
<tr>
<td>IBM Communications Server for Linux on System z</td>
<td>IBM</td>
<td>Communications Server</td>
</tr>
<tr>
<td>IBM Communications Server for Windows</td>
<td>IBM</td>
<td>Communications Server</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Program name</th>
<th>PID</th>
<th>Charge unit number</th>
<th>Charge unit description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Communications Server for AIX</td>
<td>5765-E51</td>
<td>PA Per Concurrent User</td>
<td></td>
</tr>
<tr>
<td>IBM Communications Server for AIX</td>
<td>5765-E51</td>
<td>PA Per Server</td>
<td></td>
</tr>
<tr>
<td>IBM Communications Server for Linux</td>
<td>5724-I33</td>
<td>PA Per Concurrent User</td>
<td></td>
</tr>
<tr>
<td>IBM Communications Server for Linux on System z</td>
<td>5724-I34</td>
<td>PROCESSOR-Day(s)</td>
<td></td>
</tr>
<tr>
<td>IBM Communications Server for Linux on System z</td>
<td>5724-I34</td>
<td>Per Concurrent User</td>
<td></td>
</tr>
<tr>
<td>IBM Communications Server for Linux on System z</td>
<td>5724-I34</td>
<td>Per Processor Value Unit (PVU)</td>
<td></td>
</tr>
<tr>
<td>IBM Communications Server for Windows</td>
<td>5639-F25</td>
<td>PA Per Concurrent User</td>
<td></td>
</tr>
<tr>
<td>IBM Communications Server for Windows</td>
<td>5639-F25</td>
<td>PA Per Server</td>
<td></td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Part description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Communications Server for AIX</td>
<td></td>
</tr>
<tr>
<td>Communications Server for AIXServer Annual SW S&amp;S Rnw1</td>
<td>E1BDMLL</td>
</tr>
<tr>
<td>Communications Server for AIXServer Lic + SW S&amp;S 12 Mo</td>
<td>D5BDJLL</td>
</tr>
<tr>
<td>Communications Server for AIXServer SW S&amp;S Reinstall 12 Mo</td>
<td>D5BDNLL</td>
</tr>
<tr>
<td>Communications Server for AIXUser Annual SW S&amp;S Rnw1</td>
<td>E1BCWLL</td>
</tr>
<tr>
<td>Communications Server for AIXUser Lic + SW S&amp;S 12 Mo</td>
<td>D5BCTLL</td>
</tr>
<tr>
<td>Communications Server for AIXUser SW S&amp;S Reinstall 12 Mo</td>
<td>D5BCXLL</td>
</tr>
</tbody>
</table>

Communications Server for Linux

<table>
<thead>
<tr>
<th>Part description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Communications Server for Linux</td>
<td></td>
</tr>
<tr>
<td>IBM Communications Server for Linux User Annual SW S&amp;S Rnw1</td>
<td>E01A4LL</td>
</tr>
<tr>
<td>IBM Communications Server for Linux User Lic + SW S&amp;S 12 Mo</td>
<td>D53S8LL</td>
</tr>
<tr>
<td>IBM Communications Server for Linux User SW S&amp;S Reinstall 12 Mo</td>
<td>D53S9LL</td>
</tr>
</tbody>
</table>

IBM Communications Server for Linux on System z

<table>
<thead>
<tr>
<th>Part description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Communications Server for Linux on System z</td>
<td></td>
</tr>
<tr>
<td>Comm Svr Linux Sys z Processor Value Unit (PVU) Annual SW S&amp;S Rnw1</td>
<td>E02UYLL</td>
</tr>
<tr>
<td>Comm Svr Linux Sys z Processor Value Unit (PVU) Lic + SW S&amp;S 12 Mo</td>
<td>D594NLL</td>
</tr>
<tr>
<td>Comm Svr Linux Sys z Processor Value Unit (PVU) SW S&amp;S Reinstall 12 Mo</td>
<td>D594PLL</td>
</tr>
<tr>
<td>Communication Server Linux Sys z Concurrent User(s) Annual SW S&amp;S Rnw1</td>
<td>E01A3LL</td>
</tr>
<tr>
<td>Communication Server Linux Sys z Concurrent User(s) Lic + SW S&amp;S 12 Mo</td>
<td>D53S8LL</td>
</tr>
<tr>
<td>Communication Server Linux Sys z Concurrent User(s) SW</td>
<td>D53S9LL</td>
</tr>
</tbody>
</table>
### IBM Communications Server for Windows

<table>
<thead>
<tr>
<th>Part description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Communications Server for Windows</td>
<td></td>
</tr>
<tr>
<td>IBM Comm for Windows PA Per Concurrent User Annual Sw S&amp;S Rnwl</td>
<td>E1BD5LL</td>
</tr>
<tr>
<td>IBM Comm for Windows PA Per Concurrent User Lic + SW S&amp;S 12 Mo</td>
<td>D5BD2LL</td>
</tr>
<tr>
<td>IBM Comm for Windows PA Per Concurrent User SW S&amp;S Reinstall 12 Mo</td>
<td>D5BD6LL</td>
</tr>
<tr>
<td>IBM Comm for Windows PA Per Server Annual Sw S&amp;S Rnwl</td>
<td>E1BDWLL</td>
</tr>
<tr>
<td>IBM Comm for Windows PA Per Server Lic + SW S&amp;S 12 Mo</td>
<td>D5BDTLL</td>
</tr>
<tr>
<td>IBM Comm for Windows PA Per Server Sw S&amp;S Reinstall 12 Mo</td>
<td>D5BDXLL</td>
</tr>
</tbody>
</table>

### Passport Advantage Trade-up licenses

#### Communications Server for AIX

<table>
<thead>
<tr>
<th>Precursor product</th>
<th>Trade-up product</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Communications Server for AIX</td>
<td>Communications Server for AIXSvr from Comp Trdup Lic + SW S&amp;S 12 Mo</td>
<td>D5D22LL</td>
</tr>
<tr>
<td>Qualified Competitor</td>
<td>Communications Server for AIXUser from Comp Trdup Lic + SW S&amp;S 12 Mo</td>
<td>D5D21LL</td>
</tr>
</tbody>
</table>

#### Communications Server for Linux

<table>
<thead>
<tr>
<th>Precursor product</th>
<th>Trade-up product</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Communications Server for Linux</td>
<td>Comm Server Lnx from CS Any platform TRDUP LIC+SW</td>
<td>D53SDL</td>
</tr>
<tr>
<td>Comm Server Lnx from CS Any Platform Trdup Lic + SW S&amp;S 12 Mo</td>
<td></td>
<td>D53SDL</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Precursor product</th>
<th>Trade-up product</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Communications Server for Linux on System z</td>
<td>Comm Svr Linux Sys z Conc Ur Fr Comp Prod Trdup Lic + SW S&amp;S 12 Mo</td>
<td>D53SALL</td>
</tr>
</tbody>
</table>

#### IBM Communications Server for Windows

<table>
<thead>
<tr>
<th>Precursor product</th>
<th>Trade-up product</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Communications Server for Windows</td>
<td>IBM Comm for Wind Concurrent User(s) tradeup Competitive Lic + SW S&amp;S 12 Mo</td>
<td>D5D20LL</td>
</tr>
<tr>
<td>IBM Communications Server for WIN NT</td>
<td>IBM Comm for Windows Server(s) tradeup from Competitive Lic + SW S&amp;S 12 Mo</td>
<td>D5D1ZLL</td>
</tr>
</tbody>
</table>
Passport Advantage supply

<table>
<thead>
<tr>
<th>Program name/description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comm Server for AIX V6.4.0</td>
<td>BM0SFML</td>
</tr>
<tr>
<td>IBM Communications Server for AIX V6.4 Media Pack Multilingual</td>
<td>BM0SFML</td>
</tr>
<tr>
<td>Comm Svr Linux V6.4.0</td>
<td>BM0SHML</td>
</tr>
<tr>
<td>IBM Communications Server for Linux V6.4 Media Pack Multilingual</td>
<td>BM0SHML</td>
</tr>
<tr>
<td>CommSvr Linux System z V6.4.0</td>
<td>BM0SIML</td>
</tr>
<tr>
<td>IBM Communications Server for Linux on System z 6.4 Media Pack Multilingual</td>
<td>BM0SIML</td>
</tr>
<tr>
<td>IBM Comm Server Windows V6.4.0</td>
<td>BM0SGML</td>
</tr>
<tr>
<td>IBM Comm Server Windows V6.4 Media Pack Multilingual</td>
<td>BM0SGML</td>
</tr>
</tbody>
</table>

Passport Advantage customer: Media pack entitlement details

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

<table>
<thead>
<tr>
<th>Entitled maintenance offerings description</th>
<th>Media packs description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Communications Server for Linux on System z Per Concurrent User</td>
<td>IBM Communications Server for Linux on System z 6.4 Media Pack Multilingual</td>
<td>BM0SIML</td>
</tr>
<tr>
<td>IBM Communications Server for Linux on System z per Value unit</td>
<td>IBM Communications Server for Linux on System z 6.4 Media Pack Multilingual</td>
<td>BM0SIML</td>
</tr>
</tbody>
</table>

IBM Comm Server Windows V6.4.0

<table>
<thead>
<tr>
<th>Entitled maintenance offerings description</th>
<th>Media packs description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMSVRUSVNT</td>
<td>IBM Comm Server Windows V6.4 Media Pack Multilingual</td>
<td>BM0SGML</td>
</tr>
<tr>
<td>COMMSRVRNT</td>
<td>IBM Comm Server Windows V6.4 Media Pack Multilingual</td>
<td>BM0SGML</td>
</tr>
</tbody>
</table>

Comm Server for AIX V6.4.0

<table>
<thead>
<tr>
<th>Entitled maintenance offerings description</th>
<th>Media packs description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM SERVER AIX USER</td>
<td>IBM Communications Server for AIX V6.4 Media Pack Multilingual</td>
<td>BM0SFML</td>
</tr>
<tr>
<td>Communications Server for AIX</td>
<td>IBM Communications Server for AIX V6.4 Media Pack Multilingual</td>
<td>BM0SFML</td>
</tr>
</tbody>
</table>

Comm Svr Linux V6.4.0

<table>
<thead>
<tr>
<th>Entitled maintenance offerings description</th>
<th>Media packs description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Communications Server for Linux Per User</td>
<td>IBM Communications Server for Linux V6.4 Media Pack Multilingual</td>
<td>BM0SHML</td>
</tr>
</tbody>
</table>

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
<table>
<thead>
<tr>
<th>Part number</th>
<th>Product name</th>
<th>Part number</th>
<th>Product name</th>
<th>Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>5639-F25</td>
<td>IBM Communications Server for Windows V6.1.2</td>
<td>BE6RTBP</td>
<td>COMMUNICATIONS SERVER V6.1.2 FOR WINDOWS CD MP</td>
<td>May 14, 2009</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BE6RTNA</td>
<td>COMMUNICATIONS SERVER V6.1.2 FOR WINDOWS CD MP</td>
<td>May 14, 2009</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BE6RTFR</td>
<td>COMMUNICATIONS SERVER V6.1.2 FOR WINDOWS CD MP</td>
<td>May 14, 2009</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BE6RTDE</td>
<td>COMMUNICATIONS SERVER V6.1.2 FOR WINDOWS CD MP</td>
<td>May 14, 2009</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BE6RTIT</td>
<td>COMMUNICATIONS SERVER V6.1.2 FOR WINDOWS CD MP</td>
<td>May 14, 2009</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BE6RTKO</td>
<td>COMMUNICATIONS SERVER V6.1.2 FOR WINDOWS CD MP</td>
<td>May 14, 2009</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BE6RTSC</td>
<td>COMMUNICATIONS SERVER V6.1.2 FOR WINDOWS CD MP</td>
<td>May 14, 2009</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BE6RTES</td>
<td>COMMUNICATIONS SERVER V6.1.2 FOR WINDOWS CD MP</td>
<td>May 14, 2009</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BE6RTTC</td>
<td>COMMUNICATIONS SERVER V6.1.2 FOR WINDOWS CD MP</td>
<td>May 14, 2009</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BM03BML</td>
<td>COMMUNICATIONS Server for Linux V6.2.1</td>
<td>May 14, 2009</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BM05FML</td>
<td>COMMUNICATIONS Server for AIX V6.1.0</td>
<td>May 14, 2009</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Part description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comm Svr Linux Sys z Processor Day Per Use-Day OOCd Temp use Chrg</td>
<td>D58HZLL</td>
</tr>
</tbody>
</table>
Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

License Information form numbers

<table>
<thead>
<tr>
<th>Program name</th>
<th>Program number</th>
<th>Form number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communications Server for AIX</td>
<td>5765-E51</td>
<td>L-JLSH-7NVQQX</td>
</tr>
<tr>
<td>Communications Server for Linux</td>
<td>5724-I33</td>
<td>L-JLSH-7NVR7Y</td>
</tr>
<tr>
<td>IBM Communications Server for Linux on System z</td>
<td>5724-I34</td>
<td>L-JLSH-7NVQ9H</td>
</tr>
<tr>
<td>IBM Communications Server for Windows</td>
<td>5639-F25</td>
<td>L-JLSH-7NVQQX</td>
</tr>
</tbody>
</table>

The program's License Information will be available for review on the IBM Software License Agreement Web site


Limited warranty applies

Yes

Money-back guarantee

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

- For programs acquired under the IBM International Passport Advantage Agreement, this term applies only to your first acquisition of the program.
- For programs acquired under any of IBM's On/Off CoD software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Authorization for use on home/portable computer

The program may be stored on the primary machine and another machine, provided that the program is not in active use on both machines at the same time. You may not copy and use this program on another computer without paying additional license fees.

Product name

<table>
<thead>
<tr>
<th>Product name</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communications Server for AIX</td>
<td></td>
</tr>
<tr>
<td>Communications Server for Linux</td>
<td></td>
</tr>
<tr>
<td>IBM Communications Server for Linux on System z</td>
<td></td>
</tr>
<tr>
<td>IBM Communications Server for Windows</td>
<td></td>
</tr>
</tbody>
</table>

Volume orders (IVO)

No
Passport Advantage applies
Yes, and through the Passport Advantage Web site at

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

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

IBM Operational Support Services -- SoftwareXcel
No

System i Software Maintenance applies
No

Educational allowance available
Education allowance does not apply.

Education software allowance does not apply.

Special education prices are available for qualified customers through Passport Advantage.

On/Off CoD

To be eligible for On/Off CoD pricing, customers must be enabled for temporary capacity on the corresponding hardware, and the required contract - Z125-6907, Amendment for iSeries® and pSeries® Temporary Capacity On Demand - Software - must be signed prior to use.

Prices

Passport Advantage

For Passport Advantage information and charges, contact your IBM representative or authorized IBM Business Partner. Additional information is also available at

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

Business Partner information

If you are an IBM Business Partner -- Distributor for Workstation Software acquiring products from IBM, you may link to Passport Advantage Online for resellers where you can obtain Business Partner pricing information. An IBM ID and password are required.

Copy the Web address below into the address field of your browser.

https://www.ibm.com/software/howtobuy/passportadvantage/paoreseller/em ea/channelannouncement

Announcement countries

All European, Middle Eastern, and African countries except:

- Iran
- Sudan
- Syria

Trademarks

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.
Windows and Microsoft are registered trademarks of Microsoft Corporation in the United States, other countries, or both.

Java and all Java-based trademarks are trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.

eServer is a trademark of IBM Corporation in the United States, other countries, or both.

IBM, Advanced Peer-to-Peer Networking, AIX, System z, zSeries, AnyNet, Passport Advantage, System z9, System p, iSeries and pSeries are registered trademarks of IBM Corporation in the United States, other countries, or both.

Intel, Pentium and Xeon are registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

Other company, product, and service names may be trademarks or service marks of others.

Terms of use

IBM products and services which are announced and available in your country can be ordered under the applicable standard agreements, terms, conditions, and prices in effect at the time. IBM reserves the right to modify or withdraw this announcement at any time without notice. This announcement is provided for your information only. Reference to other products in this announcement does not necessarily imply those products are announced, or intend to be announced, in your country. Additional terms of use are located at


For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the IBM worldwide contacts page

http://www.ibm.com/planetwide/