



Software Announcement

IBM US Software

November 19, 1996

IBM Communications Server for AIX: New Marketing Channel – Readiness

IBM Communications Server for AIX® Version 4.2 is now available, and channel ready, for IBM Authorized Software Distributors and IBM Authorized Software Remarketers.

Communications Server for AIX Version 4.2 extends the networking capabilities of the Communications Server for AIX Version 4.1 which provides a total enterprise networking solution. (Communications Server for AIX Version 4.1 was not available to IBM Authorized Software Distributors and IBM Authorized Software Remarketers.)

The Version 4.2 release of Communications Server for AIX includes the function-rich characteristics of the existing Version 4.1, plus the following enhancements:

- High Performance Routing (HPR)
- Dependent LU Requester (DLUR)
- AnyNet® Sockets over SNA Gateway
- API Enhancement — Non-Blocking CPI-C
- Performance Enhancements

Planned Availability Date: November 22, 1996

Description	Part Number
Communications Server for AIX Version 4.2	84H6032

IN BRIEF . . .

Communications Server for AIX provides RS/6000™ customers with:

- A broad range of communication, connectivity, and networking options
- A powerful gateway
- Multiprotocol support
- Single-session 3270 emulation capability

Enhancements include:

- HPR, an end-to-end connection-oriented protocol, improves network availability, performance, and SNA congestion control
- DLUR provides a means of transporting LU traffic through an Advanced Peer-to-Peer Networking® (APPN®) network
- AnyNet Sockets over SNA Gateway function
- Non-blocking enhancement to CPI-C API
- Performance enhancements that improve throughput with SDLC and provide support for an increased number of concurrent sessions

Marketing Information

Promotional Material: INEWS, under the AIX + RS category, contains references to promotional materials that support this announcement. Promotional materials are also available on MKTTOOLS.

The following brochures are available:

- IBM Communications Servers (G325-3565)
- IBM Communications Server for AIX (G325-3572)

HONE Information

Proposal material is available through HONE.

Configurator Information: The configurator aids CFRS6000 and PCRS6000 support this announcement.

Administrative Information

Programming RPQs

Requests will be accepted beginning on the first customer shipment date. Response time and delivery vary depending on the complexity of the order.



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This announcement is provided for your information only and is subject to change without notice. For additional information, contact your IBM representative.

Description

Product Overview

The major benefits of Communications Server for AIX are:

- Provides application independence from underlying network protocols
- Protects investments in existing applications and networks while allowing growth
- Supports a rich set of APIs for versatile client/server and distributed application development
- Provides mission-critical applications with proven reliability

The major features of Communications Server for AIX are:

- Provides SNA communications to AIX networks, including APPN Network Node and End Node.
- Integrates SNA and TCP/IP networks, by allowing TCP/IP sockets applications and SNA applications to run over either network. This may enable you to consolidate networks and eliminate the need for parallel networks.
- Provides a powerful gateway for SNA clients and 3270 traffic, allowing you to consolidate traffic from many devices through a single communication link, thus reducing costs.
- Provides a wide range of networking and connectivity options, including SDLC, X.25, FDDI, token-ring, and Ethernet. It also provides support for direct high-speed channel connection from a RS/6000 workstation to an IBM host, including both ESCON® and block multiplexer channel environments.
- Exploits Symmetric Multiprocessing (SMP) systems, improving performance up to three times over non-SMP systems, and improves performance up to three times on uniprocessor systems when compared to earlier non-SMP versions.
- Provides a rich set of Application Programming Interfaces (APIs) and tools, including Advanced Program-to-Program Communication (APPC) and Common Programming Interface for Communications (CPI-C), which enables client/server and distributed application development.
- Includes a single-session license of IBM 3270 Host Connection Program (HCON) for administrative use.

The enhancements provided by Communications Server for AIX Version 4.2 include:

- High Performance Routing (HPR)
- Dependent LU Requester (DLUR)
- AnyNet Sockets over SNA Gateway
- API Enhancement — Non-Blocking CPI-C
- Performance Enhancements

High Performance Routing (HPR)

HPR is an end-to-end, connection-oriented protocol that allows you to optimize communications across the network. These capabilities include:

- Improved network availability through end-to-end connections, alternate route calculations, and transmission resumption if an intermediate link or node fails
- Improved network performance by only performing error recovery at the endpoints of the network and by selectively retransmitting only lost or erroneous packets
- Improved SNA congestion control by constantly monitoring and adjusting the amount of data flowing between the endpoints, ensuring they do not overload

This release will provide the HPR base support function, also known as Automatic Network Routing (ANR), over the token-ring, Ethernet, FDDI, X.25, and SDLC physical data transports. The Rapid Transport Protocol (RTP) portion of HPR will not be provided in this release of Communications Server for AIX Version 4.2.

Dependent LU Requester (DLUR)

Dependent LU Requester/Server (DLUR/S) provides a means of transporting dependent LU traffic through an APPN network. A DLUR is an APPN end node or network node that owns dependent LUs, but requests that a DLUS provide the system services control point (SSCP) for those dependent LUs. A DLUS controls conversion from a subarea environment to an APPN environment, allowing central management control of remote dependent LUs to be maintained while benefiting from an APPN network.

DLUR and VTAM's dependent LU server (DLUS) function enables dependent LUs (1, 2, 3, and dependent LU6.2) to operate unchanged in an APPN network without changing applications. The DLUS establishes an LU6.2 session with, and provides SSCP services to, the DLUR node. Any number of dedicated physical units (PUs) can be defined on the LU6.2 sessions. The Gateway function of Communications Server can be used to provide services to the downstream dependent LUs.

The following functions are supported in this release:

- Local LUs
- Downstream LUs by using SNA Gateway
- SSCP takeover
- Multisubnet (border node)
- DLUS Backup — If a DLUS becomes unavailable, LUs are automatically reconnected to a preconfigured backup DLUS

DLUR allows you to protect your investment in 3270 emulation and other dependent LU applications while migrating new applications to LU6.2 and APPN.

AnyNet Sockets over SNA Gateway

The AnyNet Sockets over SNA Gateway function connects SNA and TCP/IP networks to allow sockets applications data to flow freely across both environments. Workstations and hosts in SNA networks can run sockets applications and appear to be directly connected to the TCP/IP network. In addition, dual gateways can be used to connect TCP/IP networks across an SNA network. All of the connections are to be made with no changes to the sockets applications, TCP/IP network, or SNA network. This capability provides the benefits of the SNA network to the TCP/IP applications and eliminates the need for parallel networks.

The AnyNet Sockets over SNA Gateway will support the following socket connection types:

- Stream sockets connection
- Datagram sockets connection

Performance Enhancements

Communications Server for AIX, Version 4.2 now supports V.35 communications links up to 1.54 Mb/sec for SDLC. This support has achieved throughput of up to 100 KB/sec, a 20 times increase over 56 Kbps.

Communications Server for AIX, Version 4.2 has been enhanced to support up to 50,000 concurrent sessions. Various session types require varying amounts of processor and memory resources; therefore, the maximum number of sessions will vary depending on the mix of session types and the hardware configuration. Refer to the *Communications Server for AIX Planning and Performance Guide* for system information.

Product Positioning

Communications Server for AIX is positioned to meet a wide range of customer requirements by providing APIs, such as LU0, LUs 1, 2, and 3, LU6.2, and CPI-C, to allow user-written applications to communicate with other applications using IBM's SNA as the communications protocol.

The full implementation of APPN (end node and network node), and the integrated gateway capabilities positions the RS/6000, via Communications Server, as a participant in either a host (hierarchical) or peer-to-peer distributed network environment.

Communications Server for AIX provides a single product that supports both UP and SMP hardware.

With the integrated AnyNet capabilities, Communications Server for AIX is positioned for customers with multiprotocol networking environments. The TCP/IP Sockets applications can run over SNA networks and APPC applications can run over TCP/IP networks without changing the applications or modifying the hardware.

Intended Customers: Provides a full range of communications and connectivity offerings for the RS/6000 and AIX operating systems if you have:

- Connectivity requirements for existing SNA hierarchical networks or those taking advantage of the peer-to-peer distributed networking capabilities of APPN.
- Multiprotocol networks (SNA and TCP/IP) and want to use applications written for one protocol in a network using the other protocol

Key Selling Points: The key new networking functions of Communications Server for AIX are:

- High Performance Routing (HPR)
- Dependent LU Requester (DLUR)
- AnyNet Sockets over SNA Gateway

CD Media and Documentation Packs Separately Available for Software Advantage Products

CD Media packs will be available to qualified remarketers to resell to Software Advantage customers.

Documentation packs will be available to all customers. Many customers may find these packs to be convenient or cost effective alternative to making authorized program and documentation copies. These packs are also intended to enhance the value add resellers may bring to customers and increase reseller flexibility in developing comprehensive, attractively priced solutions.

The CD media and documentation packs are in lieu of, not in addition to, the customer's authorized copies. License and entitlement are as specified in the Software Advantage Agreement and the Proof of Entitlement report.

- Documentation packs consist of the publications included in the shrinkwrapped program package
- CD media packs contain a copy of the program included in the shrinkwrapped program package

CD media and documentation packs aggregate with other Software Advantage components to determine the earned discount level for additional licenses, additional license upgrades, and upgrade protection. The earned discount level does not apply to CD media and documentation packs.

Marketing Programs

The 30-day, money-back guarantee provides the end user with an unconditional money back guarantee. If for any reason the end user is not satisfied with our products or our program packages, the products can be returned to the IBM authorized reseller for a full refund. The products must be returned within 30 days from the date of acquisition with a valid proof of entitlement. Only products obtained directly from an IBM authorized reseller are eligible for this program.

Marketing Support

Support Materials: The following brochures are available:

- IBM Communications Servers (G325-3565)
- IBM Communications Server for AIX (G325-3572)

Remarketer Support: Technical support will be provided by National Technical Support — AIX Systems Support in Dallas, Texas.

Publications

One copy of the *Communications Server for AIX: Up and Running* publications (SC31-8247) is supplied automatically with the basic machine-readable material.

The following optional hardcopy publications can be ordered for a fee immediately after planned availability:

Title	Order Number
Communications Server for AIX:	
User's Guide	SC31-8211
Configuration Reference	SC31-8213
Commands Reference	SC31-8214
Diagnosis Guide and Messages	SC31-8215
General Information	SC31-8198
Transaction Program Reference	SC31-8212
CPI-C Programming Guide	GG31-8210
Planning and Performance Guide	SC31-8220
Gateway User's Guide	SC31-8216

AnyNet Guide to Sockets Over SNA	SC31-8217
AnyNet Guide to APPC Over TCP/IP	SC31-8221
APPC Application Suite for AIX User's Guide	SC31-8218

Displayable Softcopy Publications: Publications for Communications Server for AIX are provided in displayable softcopy form, available in English only.

Technical Information

Specified Operating Environment

Hardware Requirements: Communications Server for AIX, Version 4 runs on RS/6000 systems. These programs can be used on all RS/6000, PowerPC™, and SP2® systems that support AIX Version 4.1.2, or later, or Version 4.2, or later.

One or more of the following network communication adapters are required:

- Token Ring
 - Token-Ring High Performance Network Adapter (#2970)
 - IBM 16/4 PowerPC Token-Ring Adapter (#2971)
 - Auto Token-Ring LAN Streamer® 32 MC Adapter (#2972)
 - PCI AutoLANStreamer Token-Ring Adapter (#2979)
- Ethernet
 - High-Performance LAN Adapter (#2980)
 - IBM ISA Ethernet Adapter (#2981)
 - IBM PCI Ethernet BNC/RJ-45 Adapter (#2985)
 - IBM PCI Ethernet AUI/RJ-45 Adapter (#2987)
 - Ethernet/FDX 10 Mbps TP/AUI MC Adapter (#2992)
 - Ethernet/FDX 10 Mbps BNC/AUI MC Adapter (#2993)
 - Integrated Ethernet Adapters
- SDLC
 - 4-Port Multiprotocol Communications Controller (#2700)
 - ISA MPQP Adapter (#2701)
 - Single-port, Multiprotocol Adapter/A (#2959)
- X.25
 - X.25 Interface Co-Processor/2 (#2960)
 - X.25 Interface Co-Processor —ISA (#2961)
 - Portmaster® Adapter/A —1MB (#7006)
 - Portmaster Adapter/A —2MB (#7008)
 - Multiport Model 2 —ISA (#2701)
 - ARTIC960 Co-Processor —4MB (#2924)
 - ARTIC960 Co-Processor —8MB (#2928)
- IBM Fiber Distributed Data Interface (FDDI) Adapters plus appropriate cables for attachment to a FDDI network:
 - FDDI Single-Ring Adapter (#2720)
 - Fiber Single-Ring Adapter (#2724)
 - FDDI Dual-Ring Upgrade (#2722)
 - Fiber Dual-Ring Adapter (#2723)
 - STP Single-Ring Adapter (#2725)
 - STP Dual-Ring Upgrade (#2726)
- ESCON Channel Adapter (#2756) plus
 - ESCON optional cooling fan (#6506) is required for RS/6000 Model 7013

- ESCON fiber optic cabling and connectors
- Block Multiplexer Channel Adapter (#2755) plus
 - Block Multiplexer Adapter Cable (#2757)
 - Block Multiplexer Interface Assembly (#2758)
 - Bus and Tag cable of appropriate length

For additional on-going information pertaining to adapter support contact: snaserv@vnet.ibm.com

Memory Requirements: A RS/6000 workstation running Communications Server for AIX, Version 4 needs the following minimal fixed-disk storage capacity:

- 16MB for Communications Server for AIX (plus an additional 5MB of temporary storage during installation)
- 0.5MB to 1.0MB per language for messages, depending on the language

Note: An average installation could require the following:

- 28MB for Communications Server for AIX (plus an additional 7MB of temporary storage during installation)
- 0.5MB to 1.0MB per language for messages, depending on the language

The following additional storage requirements apply for optional packages that can be installed in addition to the base Communications Server program:

- 3MB for SNA Gateway capability
- 1MB for the Xsna GUI
- 0.5MB for APPC Application Suite for AIX
- 0.8MB for APPC Interactive Application Development Toolkit (SNAPI)

The following additional storage requirements apply when the publications are installed in softcopy form:

- 19.8MB for the DynaText browser for Communications Server
- 0.2MB for the first Communications Server softcopy publication installed (storage required for DynaText style definitions shared by all of the SNA Server softcopy publications)
- 1.4MB for Up and Running Guide
- 2.6MB for Communications Server: User's Guide
- 3.1MB for Configuration Reference
- 2.7MB for Diagnosis Guide and Messages
- 1.7MB for Command Reference
- 4.3MB for Transaction Program Reference
- 1.4MB for SNA Gateway: User's Guide
- 1.0MB for APPC Application Suite for AIX: User's Guide
- 1.2MB for AnyNet Guide to APPC over TCP/IP
- 1.3MB for AnyNet Guide to Sockets over SNA
- 1.2MB for CPI-C Programming Guide
- 1.2MB for Channel Connectivity User's Guide
- 1.2MB for ESCON User's Guide

- 1.2MB for Block Multiplexer Channel Adapter User's Guide

Communications Server for AIX, Version 4 functions in 16MB of real memory, but most typical configurations need 32MB for effective performance.

Note: Memory and fixed disk requirements for other licensed programs, user applications, and data are not included in these requirements.

Software Requirements: Communications Server for AIX, Version 4.2 requires either AIX Version 4.1.2, or later, or AIX Version 4.2.

Note: The Communications Server for AIX is a part of the IBM Software Server Family of products. Version 4 of the Software Servers were certified to work together through integration testing to run on top of AIX Versions 4.1.4 and 4.2. The testing included short and long runs under stressed environments.

Compatibility: Communications Server for AIX, Version 4 is not compatible with:

- AIX Version 3.2.X

Communications Server for AIX Version 4 is compatible with:

- ESCON Channel Connectivity for AIX Version 1.1 (5765-603)
- Block Multiplexer Channel Connectivity for AIX Version 1.1 (5765-604)

Limitations: The common installation procedures for all software servers for AIX requires AIX Version 4.1.4, or later, including AIX Version 4.2. The normal product installation procedures for SNA Server for AIX Version 3.1 are used for AIX Version 4.1.2 and 4.1.3 systems. Refer to the *Communications Server for AIX: Up and Running* document for details.

Diskless workstations are not supported.

HPR is supported on the following versions of AIX only when the associated APARs are installed:

- AIX Version 4.1.2, 4.1.3, or 4.1.4 with APAR IX60351
- AIX Version 4.1.5 —No APAR required
- AIX Version 4.2 with APAR IX60672

Performance Considerations: Communications Server for AIX, Version 4 contains many performance and tuning recommendations. Refer to the *Communications Server for AIX: Planning and Performance Guide* (SC31-8220) for details.

Performance can be affected by:

- Type of connection and network characteristics
- Number of user and concurrent sessions
- Type of tasks
- Available installed memory
- RAS and/or trace activity

Planning Information

Packaging: The following packaging information applies:

- The Communications Server for AIX product is available on CD-ROM.
- Entitled documentation to support this product is provided in hardcopy.

Security, Auditability, and Control

Communications Server for AIX uses the security and auditability features of AIX Version 4.

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

Administrative Information

Ordering Information

All orders for software are submitted via purchase orders through Electronic Data Interchange (EDI) or fax. For questions about ordering procedures, contact your Customer Operations Account Representative at 800-828-6693.

Distribution/Shipment: All shipping charges for IBM licensed programs and publications from an IBM-designated shipping location will be paid by IBM in accordance with IBM's shipping practices. The remarketer is responsible for shipping charges incurred by IBM as a result of requested shipping arrangements that do not conform to IBM's then-current shipping practice.

Ordering Information for IBM Authorized Industry Remarketers Mid-Range and IBM Authorized Managing Industry Remarketers: To order the program packages, additional licenses, use based features, upgrades, and upgrade protection, use IBMLink™ to send your order to the IBM office that supports you administratively.

Terms and Conditions

Licensing

This licensed program will be available on a one-time charge basis to IBM Authorized Software Remarketers and IBM Authorized Software Distributors for remarketing under the terms and conditions of the IBM International Business Partner Agreement.

This program is licensed under the terms and conditions of the IBM International Program License Agreement (IPLA) (Z125-3301). A copy of the IPLA is packaged and shipped with each program. End user customers are advised that their first use of the program constitutes their acceptance of the IPLA. No customer signature is required. Should end user customers not agree to acceptance of the IPLA terms, they are advised to return the complete program to the point of acquisition for a refund.

Additional Licenses: IBM has acceptance terms for Additional License copies for this program. Under these terms, customers may now acquire additional licenses for this program by ordering a Proof of Additional License. The new Proof of Additional License, which is in the form of a certificate, is the customer's authorization to make a single copy of the program. The certificate may be ordered in any quantity. The customer must have obtained an original program package in order to acquire additional licenses. The terms and conditions of the IPLA supplied with the original program package apply to the Additional License copies. No machine-readable code is

included with the new Proof of Additional License package.

Upgrades

Returns

Inventory Adjustments: The announced product is eligible for return as stated in the Inventory Adjustments section of the Software Remarketer General Terms. Quantities may be returned once per month. All invoices should be paid in full until credit is issued.

30-Day, Money-Back Guarantee: IBM will provide a credit for any program package returned to its point of acquisition, provided it was acquired in the 30 days before the date of return and it includes the accompanying documentation and media.

Upon receipt of the program package, the remarketer will sign the Request to Destroy Unsalable Software form and submit it to IBM. IBM will process the credit upon receipt of the form.

Limited Warranty

Programs: Yes. The warranty terms of the IPLA apply.

Program Services: Program services will be available until November 30, 1998.

Upgrades to Communications Server for AIX Version 4.2 may be obtained through IBM Authorized Software Distributors and IBM Authorized Software Remarketers. The end user must present the original proof of entitlements along with a completed and signed IBM Personal Computer/Software Program Remarketer Upgrade and Certification Form (available from the remarketer) with payment to the remarketer. The proof of entitlement could be the original OEM invoice. The remarketer will then give the end user a new Communications Server for AIX Version 4.2. Remarketers are free to set their own prices to the end user for these

Software Advantage for Workstations Eligible Programs: The additional licenses, additional license upgrades, and use based features, described in this announcement, are included in the Eligible Program List for the Software Advantage for Workstations Exhibit.

Terms and Conditions for IBM Authorized Industry Remarketers Mid-Range and IBM Authorized Managing Industry Remarketers: This product is available to IBM Authorized Industry Remarketers Mid-Range and IBM Authorized Managing Industry Remarketers approved to market the IBM Communications Server for AIX under the terms and conditions detailed in this announcement.

Charges

Description	Part Number	One-Time Charge*	Remarketer Charge
Program Package UBF	84H6032	\$ 849	\$ 594
1 pack	84H6035	69	48
5 pack	84H6036	328	230
10 pack	84H6037	642	449
50 pack	84H6038	3,175	2,223
Unlimited pack per server	84H6039	6,590	4,613
Software Advantage 1 pack	84H6040	69	48
CD Media Pack	84H7037	5	4
Documentation Pack	84H7038	10	7

Upgrade Charges

Description	Part Number	One-Time Charge	Remarketer Charge
Program Package UBF Additional Sessions	84H6041	\$399	\$279
1 pack	84H7036	30	21
1 pack — Software Advantage	84H7358	30	30

Upgrades to Communications Server for AIX Version 4.2 will be available from either a basic or a DSLO license for:

- AIX SNA Services/6000 Version 1.X, 2.1.X, or 2.2
- AIX SNA Gateway/6000 Version 2.1.X or 2.2
- SNA Server for AIX Version 3.1
- Desktop SNA for AIX Version 1.1
- Non-IBM SNA Products

Additional License Charges

Description	Part Number	One-Time Charge	Remarketer Charge
Additional License 1 pack	84H6033	\$819	\$573
1 pack — Software Advantage	84H6034	819	573

Additional License Upgrade Charges

Description	Part Number	One-Time Charge	Remarketer Charge
Additional License Upgrade 1 pack	84H6042	\$369	\$258
Software Advantage	84H6043	369	258

Upgrade Protection Charge

Description	Part Number	Upgrade Protection Charge
Program Package One-Time Charge	84H6044	\$319.00
Quarterly Charge	84H6045	39.88
UBF One-Time Charge	84H7506	23.00
Quarterly Charge	84H7507	2.88

Education Customer Charge

Part Number	Charge
84H6032	\$ 790
84H6033	762
84H6035	64
84H7036	28
84H6039	6,129
84H6041	371
84H6042	343

* One-Time Charge reflects the license charge for a single unit acquired from IBM and is subject to change without notice. These charges are for information purposes only and shall not limit in any way the dealers' or industry remarketers' ability to set their own charges for IBM programs.

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**IBM Personal Computer/System Program Remarketer
Upgrade and Certification Form**

Remarketer Information

Authorized Location Number: _____

Remarketer Name/DBA: _____

Street Address: _____

City: _____

State: _____

Zip: _____

Name or Company Name: _____

Street Address: _____

City: _____

State: _____

Zip: _____

Customer Licensee Information

Company Name: _____

Street Address: _____

City: _____

State: _____

Zip: _____

**Old Program Name/
Part Number**

**New Program Name/
Part Number**

Quantity

I certify that _____ has licensed the current programs listed above and agrees to
(Print Customer Name)

destroy all original materials that are replaced by the upgrade and all copies of these materials within 30 days of receipt of the upgrades.

Signed: (Customer Signature) _____

Date: _____

Signed: (Authorized Remarketer Signature) _____

Remarketer Instructions:

1. Your customer may use one or more of these three ways to certify that they have licensed the programs being upgraded:
 - a. Original Proof(s) of License
 - b. Copy of Purchase Invoice
 - c. Customer signature on this form certifying license of the programs being upgraded.
2. Give a copy of the Upgrade and Certification Form to the customer.
3. Retain any supporting documentation and a copy of the invoice for the sale of the upgrades, for a period of one year, for purpose of audit by IBM.

IBM Use Only

Remarketer CMR

Date Audited

