



IBM eNetwork Personal Communications Version 4.2 Emulators Multiply Your Access Flexibility

Overview

The IBM Personal Communications family of emulators is enhanced for the Windows NT™ and Windows® 95 platforms to include these major new functions:

- ActiveX/OLE 2.0 support
- VT emulation
- ASCII—host file transfer
- AS/400® and S/390® database access

IBM eNetwork Personal Communications is available in two convenient, easy-to-use packages:

- **IBM eNetwork Personal Communications Version 4.2 for DOS, Windows, Windows 95, Windows NT, and OS/2®** — provides 3270 and 5250 emulation and connections to S/390, AS/400, and S/3X systems and VT emulation to ASCII hosts.
- **IBM eNetwork Personal Communications AS/400 Version 4.2 for Windows, Windows 95, Windows NT, and OS/2** — provides 5250 emulation and connections to AS/400 and S/3X systems and VT emulation to ASCII hosts.

These packages are available on CD-ROM for easy installation.

eNetwork Personal Communications gives you GUI-based 5250 and 3270 terminal emulation capability, VT emulation, and a range of SNA-based client APIs. This product also lets you simultaneously access and process information on AS/400, S/390, and ASCII hosts while providing a common look and feel across these environments.

With eNetwork Personal Communications AS/400, you can connect PCs with AS/400 or S/3X mid-range host computers and ASCII hosts. After the systems are connected, you can interact with IBM mid-range host computers using an impressive array of features, including an up-to-date GUI, 5250 terminal emulation, and data transfer support.

The versatile connectivity of these products gives new and established AS/400 and S/390 customers greater flexibility to expand LAN/WAN network capabilities, including support for the mobile workforce using asynchronous communications.

More information can be found on the IBM eNetwork Personal Communications Home Page at URL:

<http://www.networking.ibm.com/pcf/pcfprod.html>

Intended Customers

DOS/Windows, Windows 95, Windows NT, and OS/2 users who need 3270, 5250, or VT emulation support

Key Prerequisites

DOS/Windows, Windows 95, Windows NT, or OS/2 operating system

One-Time Charge: \$329

Planned Availability Date

September 26, 1997

At a Glance

This comprehensive set of tools allows you to access applications and data that reside on either mid-range servers, IBM enterprise servers (mainframes), or ASCII hosts. The IBM Personal Communications emulators are enhanced for Windows NT and Windows 95 to include:

- ActiveX/OLE support that allows an emulation session to be embedded in or linked to another program
- VT52, VT100, VT220 emulation, and ASCII—host file transfer
- Database access for AS/400 and S/390 via Open Database Connectivity (AS/400) and Distributed Relational Database Architecture™ (S/390 MVS®)
- AS/400 Network Drives that enable an AS/400 folder in any library to be a PC drive
- ASCII configuration files for easy editing and distribution to many workstations

You can install an industry-leading solution for your preferred operating environment from the CD-ROM.

For ordering, contact:

Your IBM representative, an IBM Business Partner, or IBM North America Sales Centers at

800-IBM-CALL

Reference: YE001

Description

IBM eNetwork Personal Communications Version 4.2 offers enhancements, many of them directed at the Windows 95 and Windows NT platforms. New items include:

ActiveX/OLE 2.0 Support: Allows the Personal Communications program to be an embedded or linked document within another program

ASCII-Host File Transfer and VT Emulation: Allows your terminal to emulate the functions of a VT52, VT100, or VT220 terminal. This includes XMODEM and YMODEM file transfer support

DOS EHLLAPI: Enables 16-bit DOS EHLLAPI programs to communicate with the Personal Communications emulator

Host Access Class Library: Provides a language-independent run-time programming interface that allows you to write applications that include Personal Communications as an object in ActiveX/OLE 2.0-compliant programs

Lotus Scripting: Provides an interface within Personal Communications to allow the integration of host data with groupware data such as Lotus Notes®

REXX EHLLAPI Support: Provides support for programmers who are using REXX language application programs to automate functions performed by terminal operators

Visual Basic Scripting: Provides an interface within Personal Communications to allow Visual Basic scripts to execute, control, and monitor a host session on behalf of an end user

TCP62: Provides a programmable API that simplifies configuration of AnyNet® LU6.2 support on TCP/IP. This function simplifies end-user tasks by eliminating SNA and AnyNet unique installation and configuration, making it possible to use LU6.2 applications in TCP/IP environments as if they were Sockets applications. The TCP62 function is included in the Personal Communications Access Feature for Windows 95 and Windows NT. Details are available at URL:

<http://www.networking.ibm.com/pcf/pcftcp62.html>

Database Access: A utility that provides access to data via ODBC drivers, enabling you to retrieve and update data from a database such as DB2/400®, DB2®/MVS, SQL server, Microsoft® Access, Lotus® Approach®, or dBASE.

ODBC and DRDA®: Refers to the ODBC and DRDA specifications that provide interfaces that allow applications to access and update data from many sources using SQL as a standard for accessing data. With the ODBC drivers provided, access through the ODBC interface to either DB2/400 or DB2/MVS databases is available. The DRDA protocol is used to provide this ODBC access to DB2/MVS.

Designed for Microsoft Backoffice: Means that Personal Communications V4.2 has been verified as Backoffice compatible, demonstrating IBM's commitment to provide software that integrates smoothly into a Windows NT environment

3174 Peer Communications (LAN over Coax): Allows LAN connectivity via 3174 using a DFT (3270) card, enabling LAN access via either existing coax or twisted-pair wiring

AnyNet SNA over TCP/IP: Connects SNA sessions (LU0, 1, 2, 3, or 6.2), dependent LU6.2 sessions, APPC3270 display sessions, or 5250 sessions through a TCP/IP network

AnyNet Sockets over SNA: Enables TCP/IP application programs using the Winsock 1.1 or 2.0 socket interface to communicate over an SNA network

APPC/CPI-C Full Duplex: Provides full duplex connectivity options for APPC and CPI-C programs

Asynchronous Console (5250): SNA-over-async (console) attachment enabling Personal Communications to act as an AS/400 system console through a special console cable between a PC communication port and an asynchronous adapter card installed in the AS/400

Backup Server/Host Connection (Telnet): Lets you specify up to two backups for Telnet connections for 3270, 5250, and VT

Hayes AutoSync: Communications mode in which the modem provides synchronous communication to the host while using an asynchronous interface at the workstation

IBM SDLC PCMCIA Adapter/Modem (Japan only): Provides SDLC support using PCMCIA cards

ISDN Via Existing Communication Port: Allows Personal Communications to use ISDN lines over a standard communication port connection

NetWare and CS/NT Client Support: Provides an LUA or APPC interface for connections to a NetWare for SAA® V2.0 or V2.2 server or to a Communications Server for Windows NT

AS/400 Network Drives (Shared Folders): Enables you to access a folder on the AS/400 host system as if it were a drive on your personal computer

Additional Twinax Adapters: Provides support for three additional Twinax adapters: IBM 5250 Express ISA Adapter, IBM 5250 Express PC Card, and IBM 5250 Express PCI Adapter

TN5250 over IPX/SPX Socket: For 5250 emulation, provides support for Personal Communications as the client side of the connection using the transport protocol AF_IPX over an IPX/SPX socket

Twinax Console: Provides console attachment to S/3X and AS/400 computers using a Twinax adapter

S/3X (Twinax): Provides Twinax connection for System/36™ and System/38™ computers

WAC: Provides support for IBM's Wide Area Connector (WAC) adapter (MCA or ISA). This adapter provides two independent connections, which can be any of V.24 (RS232), X.21, V.35, or RS422 types; it allows SDLC communication up to 2.048Mbps.

X.25: Provides support for a network running X.25 protocols

ASCII Configuration Files: All configuration files, including SNA, are now ASCII text files, making installation and maintenance of workstations easier because the data can be edited using an ASCII editor.

Unattended Installation of IEEE 802.2 Driver (LLC2): Provides for the installation of the LLC2 driver without the need for end-user intervention

Systems Management Server (SMS) Installation: Allows you to have an unattended remote install and uninstall of Personal Communications Version 4.2 using the Microsoft Systems Management Server (SMS) product

Command Line Start and Stop of the SNA Node: Allows you to start and stop the Personal Communications SNA node using the command line interface

Internet/Intranet Hotspots: Allows any URL that is displayed on the host screen (3270, 5250, or VT) to be regarded as a hotspot. Clicking on the hotspot launches your Web browser and connects you to the Web site specified by the URL.

Programmed Symbol Set Graphics: Allows Personal Communications to display host-generated graphics using a Programmed Symbol Set

SNA Data Compression: Provides for the compression of data being transferred on an SNA communication link or on an LU6.2 session

New Packaging

The CD-ROMs for eNetwork Personal Communications Version 4.2 provide all the features and functions previously included on:

CD-ROM versions of

- Personal Communications AS/400 and 3270 Version 4.11 for DOS, Windows, Windows 95, Windows NT, and OS/2
- Personal Communications AS/400 Version 4.11 for Windows, Windows 95, Windows NT, and OS/2

Diskette versions of

- Personal Communications AS/400 and 3270 Version 4.1 for Windows
- Personal Communications AS/400 Version 4.1 for Windows
- Personal Communications AS/400 and 3270 Version 4.1 for OS/2
- Personal Communications AS/400 Version 4.1 for OS/2

The eNetwork Personal Communications CD-ROM provides an easy, convenient way to order and install the Personal Communications family of emulators for multiple operating system platforms.

Additionally, eNetwork Personal Communications provides a breadth of programming interfaces that allow other workstation applications to make use of applications residing on the host. These programming interfaces include:

- Emulator High-Level Language Application Programming Interface (EHLAPI)
- Dynamic Data Exchange (DDE)
- Server-Requester Programming Interface (SRPI)
- Personal Communications Application Programming Interface (PCSAPI)
- Common Programming Interface for Communications (CPI-C)

- Advanced Program-to-Program Communication (APPC)
- Host Access Class Library
- Visual Basic scripting
- Lotus scripting
- TCP62

The Personal Communications family of products is designed to provide customers with a state-of-the-art, comprehensive set of tools for accessing applications and data that reside on either mid-range servers, IBM enterprise servers (mainframes), or ASCII hosts. These products allow you to be more creative and more productive by masking the complexity of connecting to and using host applications.

In addition to spanning the major PC operating systems in use today, the Personal Communications family of products also supports enterprise server and mid-range host connectivity and provides a common look and feel across operating systems, enabling you to easily switch between operating systems and hosts. With the unequalled range of connectivity options offered by the Personal Communications family of products, you can have the same host interface in the office, at home, or even on the road.

Productivity benefits include:

- Minimized retraining costs
- Capability to easily switch between mid-range-based, enterprise server-based, and ASCII host applications
- Shared keyboard definitions

Other functions, such as enhanced editing, pop-up keypads, and macro support also help increase productivity.

The Personal Communications family of products offers a variety of standard programming interfaces for client/server-based applications, including support for CPI-C and APPC applications. These application programming interfaces allow you to access and process information on peer workstations or mid-range or host computers. This access to applications on other systems allows developers to create a common design for applications relatively independent of the operating system platform. This helps them to develop applications quicker.

The IBM Personal Communications family of products included on the two CD-ROMs gives you everything available in the emulator market today, and more.

3270 Features

Feature/Function	OS/2	DOS/ Windows	Windows 95	Windows NT
Attachments				
IEEE 802.2	X	X	X	X
3174 Peer Communication	X	X	X	X
IPX/SPX (Netware for SAA)	X	X	X	X
NWSAA Client and CS/NT Client APPC			X	X
LUA			X	X
TCP/IP (Telnet 3270)	X	X	X	X

Feature/Function	OS/2	DOS/ Windows	Windows 95	Windows NT	Feature/Function	OS/2	DOS/ Windows	Windows 95	Windows NT
Attachments					Network Management				
SNA Distributed Function Terminal	X	X	X	X	SNA data compression (Emulator session data)	X	X	X	X
Non-SNA DFT Control Unit	X	X	X	X	SNA data compression on LU6.2 sessions			X	X
Terminal (CUT)					Session Level Encryption	X			
SDLC (autodial-capable)	X	X	X	X	VPD/EVPD, RTM, Alert	X	X	X	X
WAC (Wide Area Connector)	X		X	X	Command start/stop/query SNA mode			X	X
SNA over ASYNC	X	X	X	X	GUI				
ASYNCH for IGN (Global Network™)	X	X	X	X	Graphical, customizable tool bar	X	Windows	X	X
Home3270	X	X	X	X	Pop-up keypad and hot keys	X	Windows	X	X
Hayes Autosync	X	X	X	X	3-D hotspots	X	Windows	X	X
Hayes AutoSync II			X	X	Macro function	X	Windows	X	X
MS-SNA Server FMI		Windows	X	X	Graphical keyboard remapping	X	X	X	X
WinAPPC			X	X	NLS key-caps support	X	X	X	X
WinLUA			X	X	122-key keyboard support	X	X		
APPC3270 (LU2 over APPC)	X	Windows	X	X	DBCS unique keyboard support			X	X
AnyNet — SNA over TCP/IP	X	Windows	X	X	Keystroke record by example	X	X	X	X
3270 pass-through via AS/400	X	Windows	X	X	Customizable mouse	X	Windows	X	X
AnyNet Sockets over SNA				X	Drag-and-drop color remapping	X	Windows	X	X
ISDN, X.25	X	DOS (X.25)	X	X	Clear, crisp fonts, automatic sizing, fixed font size*	X	Windows	X	X
Installation/Customization					Versatile Edit Functions				
Remote unattended install (CID)	X				Display, view, window setup	X	Windows	X	X
Silent Install			X	X	Web browser launch from host	X		X	X
Unattended install IEEE 802.2 driver (LLC2)			X	X	Undo, cut, copy, copy, append, paste, paste next, clear, copy link, unmark, select all				
Microsoft SMS support			X	X	Clipboard viewer access	X	Windows	X	X
Installation and configuration from LAN Server	X	X	X	X	Intelligent spreadsheet support	X	Windows	X	X
Uninstall	X	X	X	X					
Automatic DFT connection	X	X	X	X					
Dynamic addition deletion of sessions	X	X	X	X					
Simultaneous sessions with different code pages and keyboard languages	X	X	X	X					
Rule line	X	X	X	X					
26 display/printer emulation sessions	X	X	X	X					
Model 2,3,4,5 display sessions	X	X	X	X					
Menu bar customization	X	Windows	X	X					
ASCII configuration files	X	X	X	X					

Feature/Function	OS/2	DOS/ Windows	Windows 95	Windows NT	Feature/Function	OS/2	DOS/ Windows	Windows 95	Windows NT
File Transfer					Host Print				
Multiple file and session transfers	X	Windows	X	X	ASCII transparent Printer definition table (PDT)	X	X	X	X
Background file transfer, lists, templates	X	X	X	X		X	X	X	X
Import/Export	X	X	X	X	Advanced Networking Support				
Programming Interfaces					APPN® End node	X		X	X
EHLAPI, DDE, PCSAPI, CPI-C, APPC	X	X	X	X	APPN LEN node		X		
SRPI	X	X	X	X	HPR	X		X	X
Host Access Class Library			X	X	DLUR	X		X	X
DOS EHLAPI	X	X	X	X	Gateway		DOS only		
Lotus scripting			X	X	IEEE 802.2, SNA DFT, SDLC, and X.25				
Visual Basic scripting			X	X	5250 Features				
REXX EHLAPI support	X		X	X	Attachments				
TCP62			X	X	IEEE 802.2 IPX/SPX (NetWare for SAA)	X	X	X	X
Host Graphics					NWSAA client APPC			X	X
GDDM® and GOCA	X	X	X	X	TCP/IP (Telnet 5250)	X	X	X	X
Programmed symbol set	X	X	X	X	IPX/SPX (Telnet 5250)			X	X
Vector	X	X	X	X	Twinaxial Console (asynch and twinaxial)	X	X	X	X
Copy graphics images	X	Windows	X	X	SDLC (autodial capability)	X	X	X	X
Additional Features					SNA over ASYNC	X	X	X	X
APL support	X	X	X	X	Hayes Autosync	X	X	X	X
3174 port 0 utility	X	X			Hayes AutoSync II			X	X
Automation and scripting utility (CMMOUSE)	X	X	X	X	MS-SNA Server APPC			X	X
ZIPPRINT	X	X	X	X	AnyNet — SNA over TCP/IP	X	Windows	X	X
EasyREXX for HLLAPI	X				S/3X	X	Windows	X	X
LAN device drivers	X	X	X	X	3174 Peer Communication (LAN over Coax)			X	X
Administration tools	X	X	X	X	AnyNet Sockets over SNA	X			X
Accessibility for handicapped users	X	X	X	X	ISDN, X.25			X	X
ActiveX/OLE support			X	X	WAC			X	X
Open database connectivity (ODBC/DRDA) and database access		Windows	X	X	Network Management				
Information Bundler for PD like CMPD			X	X	SNA data compression on LU6.2 sessions			X	X
Designed for Microsoft Backoffice			X	X	Command start stop/query SNA mode			X	X

Feature/Function	OS/2	DOS/ Windows	Windows 95	Windows NT	Feature/Function	OS/2	DOS/ Windows	Windows 95	Windows NT
Installation/Customization					Clear, crisp fonts, automatic sizing, fixed font size*	X	Windows	X	X
Remote unattended install (CID)	X				Display, view, window setup	X	Windows	X	X
Silent Install Unattended install IEEE 802.2 driver (LLC2)			X	X	Web browser launch from host	X		X	X
Microsoft SMS support			X	X	Versatile Edit Functions				
Installation and configuration from LAN Server	X	X	X	X	Undo, cut, copy, copy append, paste, paste next, clear, copy link, unmark, select all	X	Windows	X	X
Uninstall Dynamic addition/deletion of sessions	X	X	X	X	Clipboard viewer access	X	Windows	X	X
Simultaneous sessions with different code pages and keyboard languages	X	X	X	X	Intelligent spreadsheet support	X	Windows	X	X
Automatic logon Rule line	X	X	X	X	File Transfer				
26 display/printer emulation sessions	X	X	X	X	Multiple file and session transfers	X	Windows	X	X
80- and 132-column support	X	X	X	X	Programming Interfaces				
Menu bar customization	X	X	X	X	EHLAPI, DDE, PCSAPI, CPI-C, APPC	X	X	X	X
ASCII configuration files	X	X	X	X	Host Access Class Library			X	X
GUI					DOS EHLAPI	X	X	X	X
Graphical, customizable tool bar	X	X	X	X	Lotus scripting			X	X
Pop-up keypad and hot keys	X	X	X	X	Visual Basic scripting			X	X
3D Hotspots	X	X	X	X	REXX EHLAPI support	X		X	X
Macro function	X	X	X	X	TCP62			X	X
Graphical keyboard remapping	X	X	X	X	Additional Features				
NLS key-caps support	X	X	X	X	Automation and scripting utility (CMMOUSE)	X	X	X	X
122-key keyboard support	X	X			LAN device drivers	X	X	X	X
DBCS unique keyboard support			X	X	Administration tools	X	X	X	X
Keystroke record by example	X	X	X	X	Accessibility for handicapped users	X	X	X	X
Customizable mouse	X	Windows	X	X	ActiveX/OLE support			X	X
Drag-and-drop color remapping	X	Windows	X	X	Information Bundler for PD like CMPD			X	X
					Designed for Microsoft Backoffice			X	X

Feature/Function	OS/2	DOS/ Windows	Windows 95	Windows NT
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Client Application Support

File Transfer for AS/400	X	X	X	X
Virtual Print PC Organizer® and Text Assist	X	X	X	X
Enhanced non-Programmable Terminal User Interface (ENPTUI)	X	X	X	X
AS/400 Network Drives (Shared Folders)	X	X	X	X
Data Transfer (SQL file transfer)	X	X	X	X
Open database connectivity (ODBC) and database access		X	X	X

Host Print

3812 printer emulation	X	X	X	X
Host print transform	X	X	X	X
ASCII transparent Printer definition table (PDT)	X	X	X	X

Advanced Networking Support

APPN End node	X		X	X
APPN LEN node		X		
HPR	X	X	X	
DLUR	X		X	X

VT52, VT100, VT200 Emulation

Async and TCP/IP			X	X
ASCII — host file transfer				
XModem			X	X
XModem1K			X	X
YModem			X	X
YModemG			X	X

* No auto-sizing for DOS

Year 2000

This product is Year 2000 Ready. When used in accordance with its associated documentation, it is capable of correctly processing, providing, and/or receiving date data within and between the twentieth and twenty-first centuries, provided all other products, (for example, software, hardware, and firmware) used with the product properly exchange date data with it.

Product Positioning

IBM eNetwork Personal Communications Version 4.2 adds even more support for the Windows NT and Windows 95 platforms to the IBM industry-leading terminal emulation software.

A separate offering, IBM eNetwork Personal Communications AS/400 Version 4.2, includes the same support specialized to cover your 5250 emulation and AS/400 connectivity needs.

The IBM Personal Communications family of emulator products is IBM's response to the terminal-emulation needs of the PC marketplace. With these emulators, customers are provided 3270, 5250, and VT emulation support for PCs running DOS/Windows, Windows 95, Windows NT, and OS/2.

These emulators provide many powerful, yet simple-to-use features, such as macro support, keystroke record and playback, iconic toolbar, dynamic data exchange (DDE), and enhanced clipboard editing. They have the same look and feel across operating system environments, and across 3270 and 5250 emulation environments. Personal Communications also supports configuration, installation, and distribution (CID), to make management over a LAN easy.

Product Positioning with Client Access™/400: Client Access/400™ and Personal Communications AS/400 provide the natural migration path from PC Support/400, which has long been the standard software solution for most customers who want to link the AS/400 with PC workstations.

The existing PC Support/400 product contains DOS, Windows, and OS/2 solutions for 5250 emulation, shared folders, data transfer, virtual print, APPC APIs, submit remote command, data queues, and more. However, because of conventional memory constraints, new connectivity requirements, and a need for better integration into the Microsoft Windows for Workgroups desktop environment, PC Support/400 no longer meets the needs of many users.

IBM understands that customer networking needs, multiplatform operating needs, and budgetary constraints do not always allow one solution to satisfy all users' requirements. To address the needs of a diverse marketplace, IBM has developed two solutions — Client Access/400 and Personal Communications AS/400.

Client Access/400 is the recommended solution for users of OS/400® Version 3 Release 1 who require AS/400 connectivity for PCs running Windows, Windows 95, Windows NT, and OS/2. Client Access/400 brings together an impressive set of functions and clients into a single product. Client Access/400 offers a true Windows, Windows 95, and Windows NT client (eliminating the conventional memory constraints under V2Rx with PC Support/400), an OS/2 client that offers exploitation of the 32-bit operating system environment, and an array of features, including:

- E-mail enablement
 - Vendor independent mail (VIM)
 - Mail application programming interfaces (MAPI)
- Open Database Connectivity (ODBC)
- Graphical operations

Also included in Client Access/400 are IBM's Personal Communications 5250 emulators. IBM's Personal

Communications 5250 is a state-of-the-art 5250 emulator that has a common look and feel in the Windows, Windows 95, Windows NT, and OS/2 environments.

Personal Communications AS/400 is the recommended choice for customers who:

- Currently have OS/400 Version 2 Release 2 or Version 2 Release 3 installed and do not plan an immediate upgrade to Version 3 Release 1
- Do not require all the function provided by Client Access/400
- Require a quick and easy way to connect remote (dial) workstations to the AS/400

Personal Communications AS/400 (PC400) offers a state-of-the-art 5250 emulator based on the same technology as the emulator (Personal Communications 5250) found in Client Access/400. eNetwork Personal Communications AS/400 provides native solutions for workstations running Windows, Windows 95, Windows NT, and OS/2 operating systems.

PC400 provides 5250 display and printer emulation, and SNA APIs (APPC and CPI-C), Data Transfer support, AnyNet, Shared Folders support, Virtual Print (for Windows), and ODBC (for Windows, Windows 95, and Windows NT). PC400 provides a wide range of connection options including LAN (802.2 and TN5250), async, autosync, twinaxial, SDLC (and even PCMCIA support for twinax, async, and LAN environments).

As users' requirements grow beyond what is provided by existing OS/400 V2Rx, the solution provided by PC400 for Windows, OS/2, Windows 95, or Windows NT allows you to migrate seamlessly to Version 3 Release 1 of OS/400. You can continue to use PC400 with V3R1 until you migrate your users to Client Access/400.

For users who require both 3270 and 5250 emulation support for Windows, OS/2, Windows 95, or Windows NT, IBM offers a combined product called eNetwork Personal Communications, which supports both AS/400, 3270, and VT to provide the latest in PC-to-enterprise server (mainframe), PC-to-AS/400, or PC-to-ASCII host connectivity. The combined product provides all the support found in PC400, but adds the award-winning features of its related product Personal Communications/3270.

Product Positioning with IBM Host On-Demand: The Internet reaches more and more users every day. In addition to the Internet, intranets are emerging as valuable internal assets for companies. IBM eNetwork Host On-Demand is an Internet-to-SNA interconnectivity solution that provides 3270, 5250, and VT application discovery and access through the WWW. Web users needing host applications, such as software applications, public catalogs, databases, and other resources, can use Host On-Demand from inside their Java™-enabled Web browsers to access central computer data.

eNetwork Host On-Demand delivers network computing to the WWW by enabling Web-browser users to seamlessly access non-Internet-based 3270, 5250 and VT applications, content, and services.

eNetwork Host On-Demand is recommended for Internet/intranet users who require ordinary emulation function. For full-function emulation, programming APIs, and a wider range of protocols or connectivity, Personal Communications is recommended.

More information can be found on the IBM Host On-Demand Home Page at URL:

<http://www.raleigh.ibm.com/enetwork/ondemand/hod.html>

Product Positioning with Other Emulators from IBM: The PCOMM family of clients also provides a natural migration path for users who require a full-function emulator and are currently using Personal Communications AS/400 Twinaxial Entry Level, Personal Communications/3270 LUA Entry Level (part of Communications Server Version 4.0 for OS/2 Warp and Communications Server Version 5.0 for Windows NT), IBM 5250 Emulation for Windows Version 1.1, or one of the Telnet-3270 or Telnet-5250 products available with IBM's TCP/IP for OS/2, and TCP/IP for DOS and Windows.

For users requiring strong TCP/IP application support or access to Lotus Notes Mail® systems and the full-function host access (via emulation) provided by Personal Communications, the IBM eNetwork Communications Suite provides a cost-effective alternative to the purchase of multiple single-function products. More information can be found on the IBM eNetwork Communications Suite Home Page at URL:

<http://www.networking.ibm.com/ecs>

The IBM Personal Communications family of emulation products offers price and functional advantages when compared to competitive emulation products. The enhanced functions and cross-family usability make these products very competitive in the host emulation and application programming environments.

Statement of General Direction

To complement the new eNetwork Personal Communications Version 4.2 for Windows 95 and Windows NT products, IBM intends to deliver a new Personal Communications Version 4.2 for OS/2. With this new release, IBM remains the leading vendor of desktop communications products for OS/2.

Either the current Personal Communications Versions 4.1 for OS/2 or the planned new Version 4.2 for OS/2 is an excellent replacement for the IBM Communications Manager/2 (CM/2). Personal Communications for OS/2 provides many enhancements over CM/2 while maintaining compatibility with applications that were written to use the CM/2 application programming interfaces.

IBM intends to announce and make available this new release for OS/2 during the first half of 1998. The actual announcement and availability will be based on IBM's business and technical judgement.

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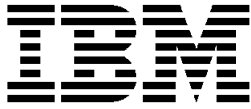
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IBM US Announcement Supplemental Information

September 9, 1997

Publications

The following publications can be ordered immediately. To order, contact your IBM representative or call 800-426-7282.

Windows® 95 and Windows NT™ — Personal Communications Publications

Title	Order Number
eNetwork Personal Communications V4.2 for Windows 95 and Windows NT	
Quick Beginnings	GC31-8476
Reference	SC31-8477
Emulator Programming	SC31-8478
Client/Server Communications Programming	SC31-8479
Systems Management Programming	SC31-8480
Host Access Class Library	SC31-8527

Other publications for these products are provided on the CD-ROM and are applicable to Version 4.2. They can also be ordered in hardcopy form; the order numbers are listed below. To order, contact your IBM representative or call 800-426-7282. When ordering from your IBM representative, use the order number. When ordering by phone, use the part number, if available.

OS/2® Personal Communications Publications

Title	Order Number	Part Number
Personal Communications AS/400® and 3270 V4.1 for OS/2		
Up and Running	SC31-8258	39H3413
Tell Me About OS/2 Access Feature	SC31-8257	39H3315
Reference	SC31-8259	39H3412
Programming	SC31-8260	39H3320

DOS and Windows® Personal Communications Publications

Personal Communications AS/400 and 3270 V4.1 for Windows		
Up and Running	SC31-8261	39H0507
Full Function for DOS	SC31-8262	39H0473
Up and Running		
Entry Emulator for DOS	SC31-8263	39H0472
Up and Running		
for Windows Reference	SC31-8264	39H0506
for DOS Reference	SC31-8265	39H0470
for DOS/Windows	SC31-8266	39H0428
Programming		
Entry Emulator for DOS	SC31-8267	39H0468
Programming		

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: <http://www.ibm.com>.

Title	Order Number	Part Number
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APPC Networking Services for Windows Getting Started SC31-8124

AnyNet® Guide to SNA over TCP/IP for Windows GV40-0113

Displayable Softcopy Publications: The following product manuals are offered in displayable softcopy form:

eNetwork Personal Communications V4.2 for Windows 95 and Windows NT

- Quick Beginnings
- Reference
- Emulator Programming
- Client/Server Communications Programming
- Systems Management Programming
- Host Access Class Library

All unlicensed manuals are included. The displayable manuals are part of the basic machine-readable material. The files are shipped on the same media type as the basic machine-readable material.

The publications listed for Personal Communications 4.1 for OS/2 or Windows are not available in displayable softcopy form for Japanese, Hangeul, Traditional Chinese, or Simplified Chinese.

The displayable manuals for IBM Personal Communications Windows 95 and Windows NT versions can be used with the BookManager® READ licensed programs. The displayable manuals for IBM Personal Communications OS/2 versions can be used with the included Information Notebook viewer. Terms and conditions for use of the machine-readable files are shipped with the files.

Technical Information

Specified Operating Environment

Hardware Requirements: For installation, a PC capable of reading a CD-ROM is required. Other prerequisites depend on the operating system. For a list of prerequisites, refer to the applicable announcement:

- Software Announcement 296-085, dated March 19, 1996, (Personal Communications AS/400 Version 4.1 for Windows and Personal Communications AS/400 and 3270 Version 4.1 for Windows)
- Software Announcement 296-087, dated March 19, 1996, (Personal Communications AS/400 Version 4.1 for OS/2 and Personal Communications AS/400 and 3270 Version 4.1 for OS/2)

Requirements for Personal Communications for Windows 95 and Windows NT

System Unit: IBM and IBM-compatible workstations with a 486, or higher, microprocessor, and memory and fixed disk storage capacity to support Windows 95 or Windows NT, as applicable. If Personal Communications Version 4.2 for Windows NT and Windows 95 or Personal Communications AS/400 Version 4.2 for Windows NT and Windows 95 is to be locally installed, the workstation must also be capable of reading a CD-ROM.

Keyboard

- Enhanced keyboard (101-key, 102-key, or 104-key)
- Space-saving keyboard
- Microsoft® natural keyboard
- 5576-001/002/003/A01/B01/B05 (Japanese)
- 5576-0C1 (T-Chinese, Windows 95 only)
- ACNOR keyboard

Monitor: Refer to the documentation provided with your operating system.

Video Adapter: Refer to the documentation provided with your operating system.

RAM and Fixed Disk Space: Minimum of 16MB RAM

15MB to 42MB of fixed disk space depending on the installation options selected

Communication Adapters: LAN and WAN communication adapters that have device drivers written to the network driver interface specification (NDIS 3.1). MAC drivers for supported adapters are generally available from the adapter vendor or are shipped with the adapters. Support for a number of communications adapters has been included with the operating system.

These additional adapters are supported by Personal Communications Version 4.2 for Windows NT and Windows 95:

For non-Micro Channel® machines

- IBM SDLC Communications Adapter
- IBM Multiprotocol Adapter
- IBM PC 3278/79 Emulation Adapter (3270 only)
- Advanced IBM PC 3278/79 Emulation Adapter (3270 only)
- IBM Wide Area Connector (WAC)
- IBM Twinax and some non-IBM Twinax adapters

Support for the following new Twinax adapters has been added:

- IBM 5250 Express ISA Adapter
- IBM 5250 Express PC Card
- IBM 5250 Express PCI Adapter

For Micro Channel machines

- IBM Multiprotocol Adapter/A
- IBM 3270 Connection (3270 only)
- IBM Asynchronous/SDLC V.32 Modem/A (MPA Card with modem)
- IBM WAC
- IBM Twinax and some non-IBM Twinax adapters are supported

For PCMCIA Release 2.0 Type II

- IBM 3270 Emulation Credit Card Adapter (3270 only)
- IBM Twinax and some non-IBM Twinax adapters are supported
- IBM SDLC PCMCIA Adapter (Japan)
- IBM SDLC PCMCIA Modem Card (Japan)

Any OEM adapter that implements the IBM OEM Deep Adapter API is supported.

Printers

- GDI print mode: Any printers that are supported by the operating system through the GDI.
- PDT (raw data) print mode for the following printers:

The following Printer Definition Files (PDF) are supported for both 3270 and 5250 sessions. A PDF is compiled to create a Printer Definition Table (PDT).

File Name	Printer Name/Model
IBM3812.PDF	IBM 3812 Page Printer, Model 2
IBM3816.PDF	IBM 3816 Pageprinter II
PRN3812.PDF	IBM 3812 Pageprinter, Model 2
	IBM 3816 Pageprinter II
IBM38521.PDF	IBM 3852 Color Printer
PRN38521.PDF	IBM 3852 Color Printer
IBM38522.PDF	IBM 3852 Color Jetprinter, Model 2
PRN38522.PDF	IBM 3852 Color Jetprinter, Model 2
IBM4019.PDF	IBM 4019 LaserPrinter
	IBM 4019 LaserPrinter E
	IBM 4029 Laser Printer
PRN4019.PDF	IBM 4019 LaserPrinter
	IBM 4019 LaserPrinter E
	IBM 4029 Laser Printer
IBM4072.PDF	IBM 4072 ExecJet® Printer
PRN4072.PDF	IBM 4072 ExecJet Printer
IBM4201.PDF	IBM 4201 Proprinter®
	IBM 4201 Proprinter II
	IBM 4201 Proprinter III, Model 3
	IBM 2380 Personal Printer Series 2
IBM4202.PDF	IBM 4202 Proprinter XL, Model 1
	IBM 4202 Proprinter XL, Model 2
	IBM 4202 Proprinter III XL, Model 2
	IBM 4202 Proprinter III XL, Model 3
	IBM 4216 Personal Pageprinter
PRN4202.PDF	IBM 2381 Personal Printer Series 2
	IBM 4201 Proprinter
	IBM 4201 Proprinter II
	IBM 4201 Proprinter III, Model 3
	IBM 4202 Proprinter XL, Model 1
	IBM 4202 Proprinter XL, Model 2
	IBM 4202 Proprinter III XL, Model 2
	IBM 4202 Proprinter III XL, Model 3
	IBM 4207 Proprinter X24
	IBM 4207 Proprinter X24E
	IBM 4208 Proprinter XL24
	IBM 4208 Proprinter XL24E
	IBM 4216 Personal Pageprinter
IBM4207.PDF	IBM 2380, 2381, 2390, 2391 printers
	IBM 4207 Proprinter X24
	IBM 4207 Proprinter X24E
	IBM 2390 Personal Printer Series 2
IBM4208.PDF	IBM 4208 Proprinter XL24
	IBM 4208 Proprinter XL24E
	IBM 2391 Personal Printer Series 2
IBM5152.PDF	IBM 5152 Graphics Printer, Model 2
PRN5152.PDF	IBM 5152 Graphics Printer, Model 2
IBM5182.PDF	IBM 5182 Color Printer
PRN5182.PDF	IBM 5182 Color Printer

File Name	Printer Name/Model
IBM5201.PDF	IBM 5201 Quietwriter® Printer, Model 1
IBM5202.PDF	IBM 5201 Quietwriter Printer, Model 2 IBM 5202 Quietwriter III
PRN5202.PDF	IBM 5204 Quietwriter Printer IBM 5201 Quietwriter Printer, Model 1
IBM5216.PDF	IBM 5201 Quietwriter Printer, Model 2
PRN5216.PDF	IBM 5202 Quietwriter III
IBM5223.PDF	IBM 5204 Quietwriter Printer
ACTLZR2.PDF	IBM 5216 Wheelprinter
BJ300.PDF	IBM 5216 Wheelprinter
LBP4.PDF	IBM 5223 Wheelprinter E
LQ870.PDF	Epson Action Laser2 LQ2500 mode
HPLJII.PDF	Canon BJ300 CAPSL mode Canon LBP4 ISO mode Epson LQ870/1170 HP LaserJet II Series

The following PDFs are provided for 5250 sessions only:

File Name	Printer Name/Model
CPQPM20.PDF	Compaq PageMarq 15 HP Mode Compaq PageMarq 20 HP Mode
EAP2250.PDF	Epson AP2250
EAP3250.PDF	Epson AP3250
EAP5500.PDF	Epson AP5000 Epson AP5500
EFX1170.PDF	Epson FX1170
EFX5000.PDF	Epson DFX5000 Epson DFX8000
EFX850.PDF	Epson FX850
ELQ1070.PDF	Epson LQ570 Epson LQ1070
ELQ2550.PDF	Epson LQ2550
ELQ510.PDF	Epson LQ510
ELQ860.PDF	Epson LQ860
ELX810.PDF	Epson LX810
EPLPCL4.PDF	Epson EPL7000 HP Mode
EPLPCL5.PDF	Epson EPL8000 HP Mode
ESQ1170.PDF	Epson SQ1170
HPDSKJT.PDF	HP DeskJet 500
HPDJ550C.PDF	HP DeskJet 550C
HPLJIII.PDF	HP LaserJet III HP LaserJet IIIP HP LaserJet IIISi
HPLJIIID.PDF	HP LaserJet IIID IBM 4039 LaserPrinter HP Mode
HPLJ4.PDF	HP LaserJet 4
IBM4070.PDF	IBM 4070 IJ
IBM4070E.PDF	IBM 4070 IJ Epson Mode
IBM4212.PDF	IBM 4212 Proprinter 24P
IBM4226.PDF	IBM 4226-302 Printer
NEC6300.PDF	NEC P6200 Pinwriter NEC P6300 Pinwriter
PANLBP4.PDF	Panasonic KX-P4410 HP Mode Panasonic KX-P4420 HP Mode Panasonic KX-P4450i HP Mode
PANLBP5.PDF	Panasonic KX-P4430 HP Mode Panasonic KX-P4451 HP Mode
PAN1123.PDF	Panasonic KX-P1123 Epson Mode
PAN1124.PDF	Panasonic KX-P1124 Epson Mode
PAN1180.PDF	Panasonic KX-P1624 Epson Mode Panasonic KX-P1180 Epson Mode Panasonic KX-P1180i Epson Mode Panasonic KX-P1191 Epson Mode
PAN1695.PDF	Panasonic KX-P1695 Epson Mode
PAN2123.PDF	Panasonic KX-P2123 Epson Mode
PAN2124.PDF	Panasonic KX-P2124 Epson Mode
PAN2180.PDF	Panasonic KX-P2180 Epson Mode
PAN2624.PDF	Panasonic KX-P1124i Epson Mode Panasonic KX-P1654 Epson Mode Panasonic KX-P2624 Epson Mode

Modems: For Windows NT 3.51, Personal Communications has its own list of modems and does not rely on operating system-provided modem support.

For Windows 95 and Windows NT 4.0, Personal Communications uses modems configured through the Windows TAPI, except for Hayes AutoSync, for which it uses its own list of modems.

Personal Communications for Windows 95 and Windows NT also supports SDLC modems (synchronous V.25bis modems) attached to SDLC, multiprotocol, or WAC adapters.

Software Requirements

- Windows 95
- Windows NT 3.51
- Windows NT 4.0
- Novell NetWare for SAA® client (optional)
- Microsoft SNA Server client (optional)

Personal Communications communicates with the following types of server or gateway:

- Communication Server for OS/2 Warp
- Communication Server for NT
- Novell NetWare for SAA Version 1.2, or later (3270 only) (IPX/SPX)
- Novell NetWare for SAA Version 2.0, or later (3270 and 5250) (SNA)
- Microsoft SNA Server

To communicate with an AS/400 system, Personal Communications requires AS/400 LPPs, depending upon your system configuration:

- OS/400® Version 2 Release 2.0, or later (5738-SS1, 5763-SS1, or 5716-SS1)
- OS/400 Version 2 Release 3.0, or later, is required for ENPTUI or Host Print Transform (5738-SS1, 5763-SS1, or 5716-SS1)
- OS/400 Version 3 Release 6.0, or later, is required for 132 column support
- For Text Assist features, cumulative PTF C3285220 with PTF SF14687 for Version 2 Release 2, PTF SF14495 for Version 2 Release 3.

Optional (for 3270): Licensed programs on System/390® host computers for file transfer:

- For MVS®/TSO — 3270 PC File Transfer Program Release 1.1.1 (5665-311)
- For VM — 3270 PC File Transfer Program Release 1.1.1 (5664-281)
- For CICS® — CICS to 3270 PC File Transfer Program Release 1 (5798-DQH)
- For VSE — VSE/SP™ Version 3 (5750-AAV), VSE/SP Version 4 (5750-ABF), or VSE/ESA™ (5750-ACD). (VSE/SP and VSE/ESA have no prerequisite programming requirements for file transfer.)

System/390 host computers communicating SNA with Personal Communications Version 4.2 for Windows NT and Windows 95 require the following:

For the MVS environment:

- ACF/VTAM® Version 3, or later, or ACF/VTAM® Version 3 Release 4.2 for Dynamic Definition of Dependent LUs and Data Compression:

- ACF/VTAM V3 for MVS/XA™ (5665-289)
- ACF/VTAM V3 for MVS/370 (5665-313)
- ACF/VTAM V3 for MVS/ESA™ (5685-085)
- ACF/VTAM V4R2 for MVS/ESA (5695-117) for APPC3270 and DLUR
- ACF/VTAM V4R3 for MVS/ESA (5695-117) for HPR
- ACF/NCP Version 4 Release 3.1 (5668-854) for token-ring connection
- ACF/NCP Version 6 Release 2 (5688-231) for data compression of XRF sessions

For the VM environment:

- ACF/VTAM Version 3, or later, or ACF/VTAM Version 3 Release 4.0 for dynamic definition of dependent LUs.
 - ACF/VTAM V3 for VM/ESA® (5684-095)
 - ACF/VTAM V4R2 for VM/ESA (5654-010) for APPC3270 and DLUR
- ACF/VTAM Version 3 Release 4.1 for VM/SP and VM/ESA (5684-095) for data compression
- ACF/NCP Version 4 Release 2 (5668-854), or later, level release for token-ring connection

For the VSE environment:

- ACF/NCP Version 4 Release 1.0 (5668-854), or later, for token-ring connection
- ACF/VTAM Version 3 Release 4 for VSE/ESA (5666-363) for dynamic definition of dependent LUs
- ACF/VTAM V4R2 for VSE/ESA (5686-065) for APPC3270 and DLUR

Refer to the individual host operating system information for the correct level of release that supports these ACF/VTAM and ACF/NCP versions.

Personal Communications Version 4.2 for Windows NT and Windows 95 is datastream-compatible with 3270 base datastream alphanumeric application environments that support the IBM 3278 Model 2, 3, 4, or 5 or the IBM 3279 Model 2 or 3 with certain restrictions. (Refer to the **Limitations** section.)

Compatibility: Compatibility information depends on the operating system that you use. For detailed information, refer to the applicable product announcement:

- Software Announcement 296-085, dated March 19, 1996, (Personal Communications AS/400 Version 4.1 for Windows and Personal Communications AS/400 and 3270 Version 4.1 for Windows)
- Software Announcement 296-087, dated March 19, 1996, (Personal Communications AS/400 Version 4.1 for OS/2 and Personal Communications AS/400 and 3270 Version 4.1 for OS/2)

Personal Communications Version 4.2 for Windows NT and Windows 95 and Personal Communications AS/400 Version 4.2 for Windows NT and Windows 95 have been tested for compatibility with the following programs; however, compatibility should not be assumed for all environments (host connections and emulation functions provided by Personal Communications Version 4.2 for Windows NT and Windows 95 and Personal Communications AS/400 Version 4.2 for Windows NT and Windows 95). Users of Personal Communications Version 4.2 for Windows NT and Personal Communications AS/400 Version 4.2 for Windows NT and

Windows 95 must verify the availability of sufficient application memory space based upon the host connection, emulation functions configured, and other Windows NT requirements and system extensions selected.

- Operating systems:
 - Windows 95
 - Windows NT 3.51
 - Windows NT 4.0
- Microsoft SNA Server Windows NT Client and Windows 95 Client
- NetWare for SAA client
- NetWare Version 3.12J (Japanese)

Limitations: Certain limitations may apply. For detailed information, refer to the applicable product announcement:

- Software Announcement 296-085, dated March 19, 1996 (Personal Communications AS/400 Version 4.1 for Windows and Personal Communications AS/400 and 3270 Version 4.1 for Windows)
- Software Announcement 296-087, dated March 19, 1996 (Personal Communications AS/400 Version 4.1 for OS/2 and Personal Communications AS/400 and 3270 Version 4.1 for OS/2)

These limitations to Personal Communications for Windows 95 and Windows NT apply to all language versions:

- Control Unit Terminal (CUT) is not supported
- Printer Definition Tables (PDT) are supported by Personal Communications Version 4.2 for Windows NT and Windows 95 and Personal Communications AS/400 Version 4.2 for Windows NT and Windows 95.

Unless PDTs are used, the SCS control codes may not always be handled correctly, depending on the printer drivers and fonts being used.

Personal Communications Version 4.2 for Windows NT and Windows 95 and Personal Communications AS/400 Version 4.2 for Windows NT and Windows 95 depend on the operating system printer device drivers to print data when the print driver is used. Some printer device drivers do not support all characters that are used. Such printer device drivers print an unsupported character as the most similar character or as the default character of the printer driver (for example “-”).

- Data Transfer does not support multiple invocations at a time
- AS/400 Network Drives (Shared Folders) are not supported for Windows NT 3.51
- Open Database Connectivity (ODBC) — AS/400 and MVS
 - Supports the APPC protocol only. By configuring AnyNet SNA over IP, TCP/IP networks are also supported.
 - The ODBC drivers provide select, insert, update, and delete access to data. However, the Database Access utility provides select access to data only.
- Commonly used 3274 Control Unit features and capabilities are supported; however, the following are not supported (3270 only):

- APL characters are not copied to the clipboard by CUT, COPY, or COPY LINK functions as APL characters. They are copied to the clipboard as ANSI characters that have the same code points.
 - Configuration C features:
 - Structured field and attribute processing (SFAP) (EBCDIC only)
 - Decompression of PS load data
 - Attachment of local or remote R-Loop
 - Explicit partitions
 - X.21 communication protocol
 - Only a subset of Entry Assist functions are supported
 - All IBM 3278 keyboard types except the IBM 3278 Typewriter keyboard
 - Certain IBM 3278 keys
 - Extended attribute selection keys: Color, highlighting, programmed symbols
 - Indent
 - Magnetic stripe reader
 - Certain IBM 3287 Printer capabilities:
 - Mono/dual case switch/light
 - Test switch/light
 - Reset switch
 - Setup switch
 - Index switch
 - Control unit signal light
 - Security keylock
 - Selector light pen
 - Host direct printing with an APPC3270 connection
 - Coexistence of IBM 3270 PCMCIA adapter and IBM 3270 AT® bus communication adapter, or IBM 3270 connection adapter.
 - Change of printer control parameters when using a PDT file
 - In addition to the above restrictions, when using DFT communications attachment, the following features and capabilities of the IBM 3274 or IBM 3174 Control Units are not supported:
 - Programmed symbols (PS) on attached workstations
 - Attachment to port 0 of the 3274
 - Database operations
 - 3270 Diagnostic Reset Dump
 - Patch facility
 - Home3270 and Global Network™ attachments do not support the following:
 - Graphics
 - Passthru Print
 - SRPI
 - Async IIN™ support is limited to the following:
 - 8-bit no parity
 - No compression
 - The following attachments do not support multiple physical adapters or two RS232-C ports:
 - Home3270
 - Global Network
 - Line speed up to 115.2 Kbps, depending on PC and configuration:
 - SDLC, Async IIN, and SNA-over-Async
 - Home3270
 - Global Network
 - TCP/IP connectivity has the following restrictions:
 - SDDLU (self-defining dependent LUs) and SNA session-level compression and decompression are not available.
 - The maximum packet size must be less than 8,000 bytes for the file transfer.
 - For IPX/SPX connectivity, SDDLU (self-defining dependent LUs) and SNA session-level compression and decompression are not available.
 - APPC and CPI-C APIs are not supported for IPX/SPX
 - AnyNet Sockets over SNA is not supported for Windows 95
 - Host Access Class Library:
 - Structured fields are not supported.
 - VBScript is not supported for Windows NT 3.51.
 - EHLLAPI:
 - Storage manage function is not supported.
 - CONPHYS is not supported.
 - Subsystem Local Copy is not supported for the IBM 3278 and IBM 3279 Display Stations and the IBM 3287 Printer.
 - The DDE API does not support code-page conversion. Applications must use the CSV API for code-page conversion.
- Performance Considerations:** Response time in a terminal environment depends upon a variety of system unit and data-communication load factors. These include the types and speeds of system units processor, number and types of communication adapters installed, the line speed of the communication service, and the amount of processing done by the applications utilizing Personal Communications Version 4.2 for Windows NT and Windows 95 or Personal Communications AS/400 Version 4.2 for Windows NT and Windows 95.
- Planning Information**
- The Personal Communications Version 4.2 for Windows 95 and Windows NT and Personal Communications AS/400 Version 4.2 for Windows 95 and Windows NT can be set up to work in a server/client relationship. The approach used is to store the least amount of code necessary on the client workstation and to store the major portion of the run-time code and configuration information on a LAN file server. You can then use your workstations for more applications.
- Customer Responsibilities:** The customer must provide the minimum hardware and software environments in which the specific IBM Personal Communications product will operate. It is recommended that an administrator be assigned to customize the program for end users or to provide the end user with host information required to configure and install the selected product. For more detailed information on customer responsibilities, refer to the applicable product announcement:

- Software Announcement 296-085, dated March 19, 1996, (Personal Communications AS/400 Version 4.1 for Windows and Personal Communications AS/400 and 3270 Version 4.1 for Windows)
- Software Announcement 296-087, dated March 19, 1996, (Personal Communications AS/400 Version 4.1 for OS/2 and Personal Communications AS/400 and 3270 Version 4.1 for OS/2)

Packaging: IBM eNetwork Personal Communications Version 4.2 and eNetwork Personal Communications Version 4.2 program packages are each distributed with the following materials:

- Proof of Entitlement (PoE)
- License Information
- International Program License Agreement
- IPLA Pointer Sheet — Generic
- Guide to Installation
- Host On-Demand brochure
- One CD-ROM

Security, Auditability, and Control

IBM Personal Communications products run under the control of the operating system for which they were designed and are subject to the controls that the operating system provides.

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

Ordering Information

The charge structure for Personal Communications Version 4.2 parallels that of previous versions but with some changes in terms. For orders of the base program package, additional "install" part numbers (formerly called "use packs") are provided for copy and use under the terms of the licence agreement.

Special upgrade prices are available for previous users and users of other qualifying programs including a price for upgrades for additional install authorizations up to the quantity of licences previously owned.

Personal Communications also participates in the Software Advantage for Workstations program. Customers who have previously acquired Software Advantage Upgrade Protection will automatically receive the Personal Communications Version 4.2 program package. Upgrade Protection for a one-time charge (OTC) offered with Version 4.11 continues with Version 4.2.

Description	Order Type	Feature Number	Part Number
Personal Communications V4.2 for DOS/Windows, Windows 95, Windows NT, and OS/2 with DES			
Program Package	5801-AAR	8592	4074548
1 Install	5802-AAR	5199	4074525
5 Installs	5802-AAR	5200	4074526
10 Installs	5802-AAR	5201	4074527
50 Installs	5802-AAR	5202	4074528

Description	Order Type	Feature Number	Part Number
Personal Communications AS/400 V4.2 for DOS/Windows, Windows 95, Windows NT, and OS/2			
Program Package	5801-AAR	8536	4107063
1 Install	5802-AAR	5207	4073425
5 Installs	5802-AAR	5208	4073426
10 Installs	5802-AAR	5209	4073427
50 Installs	5802-AAR	5210	4073428

Upgrades

Personal Communications V4.2 for DOS/Windows, Windows 95, Windows NT, and OS/2 with DES

Program Package	5803-AAR	4489	4074597
Upgrade			
1 Install for Upgrade	5804-AAR	6240	4074530

Personal Communications AS/400 V4.2 for DOS/Windows, Windows 95, Windows NT, and OS/2

Program Package	5803-AAR	4437	4110645
Upgrade			
1 Install for Upgrade	5804-AAR	6251	4073352

Description	Order Type	Part Number
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Software Advantage

Personal Communications V4.2 for DOS/Windows, Windows 95, Windows NT, and OS/2

1 Install for Software Advantage	5802-AAR	4074529
Media Pack for Software Advantage		4074545

Personal Communications AS/400 V4.2 for DOS/Windows, Windows 95, Windows NT, and OS/2 with DES

1 Install for Software Advantage	5802-AAR	4073350
Media Pack for Software Advantage		4107041

Software Advantage Upgrades

Personal Communications V4.2 for DOS/Windows, Windows 95, Windows NT, and OS/2

1 Install for Upgrade and Software Advantage	5804-AAR	4074533
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Personal Communications AS/400 V4.2 for DOS/Windows, Windows 95, Windows NT, and OS/2

1 Install for Upgrade and Software Advantage	5804-AAR	4073441
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Description	Order Type	Part Number
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Software Advantage Upgrade Protection

Personal Communications V4.2 for DOS/Windows, Windows 95, Windows NT, and OS/2

OTC	5809-AAR	64H0894
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Personal Communications AS/400 V4.2 for DOS/Windows, Windows 95, Windows NT, and OS/2

OTC	5809-AAR	64H0896
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Upgrade Protection (Entitled Customers): Customers who have previously acquired Software Advantage Upgrade Protection, as shown in the table below, will automatically receive their program package shortly after general availability.

Customers who have previously acquired Software Advantage Upgrade Protection part numbers listed below will automatically receive IBM eNetwork Personal Communications Version 4.2 part number 4074548 shortly after planned availability.

Description	Part Number	Charge Option
Personal Communications AS/400 and 3270 for OS/2	33H6934	OTC
Personal Communications AS/400 and 3270 for Windows	33H6935	OTC
Personal Communications/3270 for OS/2	33H6936	OTC
Personal Communications/3270 for Windows	33H6937	OTC
Personal Communications AS/400 and 3270 for OS/2	33H7121	QC ¹
Personal Communications AS/400 and 3270 for Windows	33H7122	QC
Personal Communications/3270 for OS/2	33H7123	QC
Personal Communications/3270 for Windows	33H7124	QC
Communications Manager/2 DF	33H6887	OTC
Communications Manager/2 FR 1.x	33H6888	OTC
Communications Manager/2 DF	33H7074	QC
Communications Manager/2 FR 1.x	33H7075	QC
Personal Communications AS/400 and 3270 V4.x	64H0894	OTC
Personal Communications AS/400 and 3270 V4.x	64H0895	QC

Customers who have previously acquired one of these Software Advantage Upgrade Protection part numbers will automatically receive IBM eNetwork Personal Communications Version 4.2 part number 4107063 shortly after planned availability.

Description	Part Number	Charge Option
Personal Communications AS/400 for OS/2	33H6938	OTC
Personal Communications AS/400 for Windows	33H6939	OTC
Personal Communications AS/400 for OS/2	33H7125	QC
Personal Communications AS/400 for Windows	33H7126	QC
Personal Communications AS/400 V4.x	64H0896	OTC
Personal Communications AS/400 V4.x	64H0897	QC

¹ Quarterly charge

Program Upgrade

The program package upgrade option allows upgrade to IBM eNetwork Personal Communications Version 4.2 from any of the following:

- IBM 3270 or 5250 emulator programs
 - Communications Manager/2 V1.x
 - Communications Manager/2 V1.x DF
 - OS/2 EE, ES, ES+DB — all versions
 - Personal Communications/3270 for DOS/Windows — all versions
 - Personal Communications/3270 V4.0 for OS/2
 - Personal Communications/3270 V4.0 for OS/2 — IEEE 802.2 Entry Level
 - Personal Communications/3270 V4.0 for OS/2 — LUA Entry Level
 - Personal Communications AS/400 and 3270 V4.x — all platforms
 - 3270 PC any version
 - 5250 PC any version
 - 5250 Workstation Feature any version
 - Personal Communication/5250-Windows any version
 - Personal Communication/5250-OS/2 any version
 - Any other IBM 3270 or 5250 full function emulator program for OS/2 or Windows
- IBM APPC Networking Services for Windows Version 1.0
- Any non-IBM 3270 or 5250 full function emulator programs including, but not limited to:
 - EXTRA!
 - Rumba
 - IRMA Workstation
 - Rally
 - Rumba for AS/400
 - IRMA/400
 - CGS

The program package upgrade option also allows upgrade to IBM eNetwork Personal Communications Version 4.2 from any of the following:

- IBM 5250 emulator programs
 - Communications Manager/2 V1.x
 - Communications Manager/2 V1.x DF
 - OS/2 EE, ES, ES+DB — all versions
 - Personal Communications AS/400 and 3270 V4.x — all platforms
 - Personal Communications AS/400 V4.x — all platforms
 - Client Access™/400 — all versions
 - Any other IBM 5250 full function emulator program for OS/2 or Windows
- IBM APPC Networking Services for Windows Version 1.0

- Any non-IBM 5250 full function emulator programs including, but not limited to:
 - Rally
 - Rumba for AS/400
 - IRMA/400
 - Chori

Terms and Conditions

Licensing: IBM International Program License Agreement. PoEs are required for all authorized use.

Program Unique Terms: The program is licensed only for use by a single computer at a time. You may allow only one computer to access and use the program (or maintain an active session within the program) at any point in time. You agree that use of the program by one computer must end before another computer may access and begin using the program, unless each computer has purchased a license to the program. As an example but not by way of limitation, if you install the program on a server which can physically allow more than one computer at a time to access and use programs on that server, only one computer may access and use the program at any one time, unless you have purchased a separate license for each computer which will access the program.

Limited Warranty: Yes

Program Services: Available until December 31, 2000

Guarantee: 30-day, money-back guarantee for program packages

Copy and Use on Home/Portable Computer: Yes

Support Line: Personal Systems

Complimentary Introductory Support: Not available for OS/2 platform

Upgrades: Customers may acquire upgrades up to the currently authorized level of use of the qualifying programs.

Volume Orders: Yes, contact your IBM representative

Software Advantage Applies: Yes

Upgrade Protection Applies: Yes

Entitled Upgrade for Current Upgrade Protection Licensees: Yes

Variable Charges Apply: No

Educational Allowance Available: Yes, to qualified educational institution customers.

Charges

Description	Part Number	OTC
Personal Communications V4.2 for DOS/Windows, Windows 95, Windows NT, and OS/2		
Program Package with DES	4074548	\$ 329
1 Install	4074525	279
5 Installs	4074526	1,325
10 Installs	4074527	2,595
50 Installs	4074528	12,835

Description	Part Number	OTC
Program Package Upgrade with DES	4074597	\$ 139
1 Install Upgrade	4074530	109
1 Install for Software Advantage	4074529	279
1 Install for Upgrade and Software Advantage	4074533	109

Upgrade Protection—OTC 64H0894 99

Personal Communications AS/400 V4.2 for DOS/Windows, Windows 95, Windows NT, and OS/2

Program Package	4107063	199
1 Install	4073425	169
5 Installs	4073426	805
10 Installs	4073427	1,575
50 Installs	4073428	7,775

Program Package Upgrade	4110645	109
1 Install for Upgrade	4073352	89
1 Install for Software Advantage	4073350	169
1 Install for Upgrade and Software Advantage	4073441	62

Upgrade Protection—OTC 64H0896 79

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