



## IBM Personal Communications V4.11 Now Fully Supports Windows NT

### Overview

The industry-leading IBM Personal Communications family of emulators is enhanced to include full support for Windows NT for the client workstation.

For convenience and ease of use, Personal Communications is available in two packages: Personal Communications AS/400® Version 4.11 for Windows, Windows 95, Windows NT, and OS/2® which provides 5250 emulation and connections to AS/400 and S/3X systems; and Personal Communications AS/400 and 3270 Version 4.11 for DOS, Windows, Windows 95, Windows NT, and OS/2 which provides 3270 and 5250 emulation and connections to S/390®, AS/400, and S/3X systems. These packages are available on separately orderable CD-ROMs.

This family of Personal Communications products provide state-of-the-art multi-protocol communications client support for PCs running DOS (3270), OS/2, Windows 3.x, Windows NT, or Windows 95.

These products for Windows NT are available only via CD-ROM. You can select and install a single product from the CD-ROM for your preferred operating environment without dealing with multiple diskettes.

With Personal Communications AS/400 Version 4.11 for Windows, Windows 95, Windows NT, and OS/2 you can connect PCs with AS/400 or S/3X mid-range host computers. Once 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.

Personal Communications AS/400 and 3270 Version 4.11 for DOS, Windows, Windows 95, Windows NT, and OS/2 gives you GUI-based 5250 and 3270 terminal emulation capability in addition to a range of SNA-based client APIs, offering flexibility in application implementation. This product also lets you simultaneously access and

process information on AS/400 and S/390 hosts while providing a common look and feel across both environments.

The versatile connectivity of these products gives new and established AS/400 and S/390 customers greater flexibility in expanding LAN/WAN network capabilities including support for the mobile work force using asynchronous communications.

### Intended Customers

Customers installing Windows NT as a client workstation operating system can now install Personal Communications Version 4.1 for Windows NT and extend the emulator look and feel across multiple operating systems.

Customers who are currently licensed users of Personal Communications Version 4.1 CD-ROM can obtain via IBM Service a Corrective Service Delivery (CSD) CD-ROM which contains Personal Communications Version 4.1 for Windows NT.

### Key Prerequisites

Personal Communications AS/400 and 3270 Version 4.1 and Personal Communications AS/400 Version 4.1 CD-ROMs provide a variety of features and connectivity options across multiple operating systems and some differences exist between these platform offerings. Additionally, there are differences between single-byte character set (SBCS) and double-byte character set (DBCS) versions. You should carefully review the product **Description, Hardware Requirements, Software Requirements, and Limitations** sections for further details.

### At a Glance

The Personal Communications family of emulators is enhanced to include a version that provides full support for Microsoft Windows NT.

The Personal Communications emulation products are available on CD-ROM for use in the DOS (3270 only), Windows, Windows 95, Windows NT, and OS/2 environments:

- Personal Communications AS/400 Version 4.11 for Windows, Windows 95, Windows NT, and OS/2 on one CD-ROM

The set of programs provided on this CD-ROM lets you connect to and use applications resident on IBM mid-range computers, such as an AS/400 or S/3x.

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

The set of programs provided on this CD-ROM lets you connect to and use host applications resident on either IBM enterprise servers (mainframes) such as the S/390, or on IBM mid-range hosts, such as an AS/400 or S/3x.

The CD-ROM gives you:

- An easier, more convenient way to order, install, upgrade, and maintain Personal Communications products
- Simpler licensing options
- Product documentation in PostScript printable format

**Planned Availability Date:**  
February 28, 1997

**Ship Date:** February 28, 1997

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**Part Numbers**

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<b>Description</b>	<b>Part Number</b>
Personal Communications AS/400 and 3270 Version 4.11 for DOS, Windows, Windows 95, Windows NT, and OS/2 (on CD-ROM)	64H0720
Personal Communications AS/400 Version 4.11 for Windows, Windows 95, Windows NT, and OS/2 (on CD-ROM)	64H0736

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**Marketing Information**

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**Marketing Channels**

- IBM Business Partner — Distributor for Workstation Software
- IBM Business Partner — Reseller for Workstation Software
- IBM NA Field Sales
- IBM Direct (U.S. Telesales)

**Promotional Material:** The following materials will be available from Mechanicsburg by the dates shown below:

<b>Title</b>	<b>Order Number</b>	<b>Availability Date</b>
Any-to-Any Assessment Guide	G325-3675	02/04/97
Intranet/Internet Assessment Guide	G325-3677	02/04/97
IBM Personal Communications Family Brochure	G325-3475	02/04/97
Personal Communications Evaluation CD	SK2T-2003	02/28/97
IBM Enterprise Communications Family Training CD	GV40-0548	02/04/97
Personal Communications Product Overview Diskette for OS/2	SV40-0114	03/22/96
Personal Communications Product Overview Diskette for Microsoft Windows	SV40-0115	03/22/96
Personal Communications Product Overview Diskette for Microsoft Windows 95	SV40-0116	05/24/96

**HONE Information**

Proposal material will be available through HONE.

**Configurator Information:** The configurator aids will be updated to support this announcement:

<b>Configurator Aid</b>	<b>Date Available</b>
CFPC	02/11/97
PSC-USA	02/04/97



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This family of Personal Communications products provide state-of-the-art multi-protocol communications client support for PCs running DOS (3270), OS/2, Windows 3.x, Windows NT, or Windows 95.

These products for Windows NT are available only via CD-ROM. You can select and install a single product from the CD-ROM for your preferred operating environment without dealing with multiple diskettes.

With Personal Communications AS/400 Version 4.11 for Windows, Windows 95, Windows NT, and OS/2 you can connect PCs with AS/400 or S/3X mid-range host computers. Once 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.

Personal Communications AS/400 and 3270 Version 4.11 for DOS, Windows, Windows 95, Windows NT, and OS/2 gives you GUI-based 5250 and 3270 terminal emulation capability in addition to a range of SNA-based client APIs, offering

flexibility in application implementation. This product also lets you simultaneously access and process information on AS/400 and S/390 hosts while providing a common look and feel across both environments.

The versatile connectivity of these products gives new and established AS/400 and S/390 customers greater flexibility in expanding LAN/WAN network capabilities including support for the mobile work force using asynchronous communications.

## Intended Customers

Customers installing Windows NT as a client workstation operating system can now install Personal Communications Version 4.1 for Windows NT and extend the emulator look and feel across multiple operating systems.

Customers who are currently licensed users of Personal Communications Version 4.1 CD-ROM can obtain via IBM Service a Corrective Service Delivery (CSD) CD-ROM which contains Personal Communications Version 4.1 for Windows NT.

## Key Prerequisites

Personal Communications AS/400 and 3270 Version 4.1 and Personal Communications AS/400 Version 4.1 CD-ROMs provide a variety of features and connectivity options across multiple operating systems and some differences exist between these platform offerings. Additionally, there are differences between single-byte character set (SBCS) and double-byte character set (DBCS) versions. You should carefully review the product **Description, Hardware Requirements, Software Requirements, and Limitations** sections for further details.

## At a Glance

The Personal Communications family of emulators is enhanced to include a version that provides full support for Microsoft Windows NT.

The Personal Communications emulation products are available on CD-ROM for use in the DOS (3270 only), Windows, Windows 95, Windows NT, and OS/2 environments:

- Personal Communications AS/400 Version 4.11 for Windows, Windows 95, Windows NT, and OS/2 on one CD-ROM

The set of programs provided on this CD-ROM lets you connect to and use applications resident on IBM mid-range computers, such as an AS/400 or S/3x.

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

The set of programs provided on this CD-ROM lets you connect to and use host applications resident on either IBM enterprise servers (mainframes) such as the S/390, or on IBM mid-range hosts, such as an AS/400 or S/3x.

The CD-ROM gives you:

- An easier, more convenient way to order, install, upgrade, and maintain Personal Communications products
- Simpler licensing options
- Product documentation in PostScript printable format

**Planned Availability Date:**  
February 28, 1997

**Ship Date:** February 28, 1997

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

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## Part Numbers

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Description	Part Number
Personal Communications AS/400 and 3270 Version 4.11 for DOS, Windows, Windows 95, Windows NT, and OS/2 (on CD-ROM)	64H0720
Personal Communications AS/400 Version 4.11 for Windows, Windows 95, Windows NT, and OS/2 (on CD-ROM)	64H0736

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## Product Description

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The CD-ROMs for Personal Communications AS/400 Version 4.11 for Windows, Windows 95, Windows NT, and OS/2 and Personal Communications AS/400 and 3270 Version 4.11 for DOS, Windows, Windows 95, Windows NT, and OS/2 provides all the features and functions included on the diskette versions of:

- IBM Personal Communications AS/400 Version 4.1 for Windows
- IBM Personal Communications AS/400 and 3270 Version 4.1 for Windows
- IBM Personal Communications AS/400 Version 4.1 for OS/2
- IBM Personal Communications AS/400 and 3270 Version 4.1 for OS/2
- IBM Personal Communications AS/400 Version 4.1 for Windows 95
- IBM Personal Communications AS/400 and 3270 Version 4.1 for Windows 95

Personal Communications Version 4.11 CD-ROM provides an easy and convenient way to order and install the Personal Communications family of emulators for multiple operating system platforms.

Additionally, Personal Communications Version 4.11 provides a wide 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)

The entire Personal Communications family of products is designed to provide you with a state-of-the-art, comprehensive set of tools for accessing applications and data that reside on either mid-range or IBM enterprise servers (mainframes). 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. The productivity benefits include minimized retraining costs, the capability to easily switch between mid-range-based and enterprise server-based applications, and shared keyboard definitions. Other functions, such as enhanced edit functions, 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 APIs 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 which is relatively independent of the operating system platform. This helps them to develop applications quicker.

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## Marketing Information

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### 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 remarketer 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 remarketer are eligible for this program.

### Marketing Support

**Remarketer Support:** Marketing and technical information will be provided to IBM distributors and resellers for Workstation Software by the IBM Personal Computer Company Personal Systems HelpCenter® either by telephone or through the PartnerLink™ System. The hours of operation of the IBM PC Company Personal Systems HelpCenter are 9:00 a.m. to 9:00 p.m. eastern time, Monday through Friday, except holidays.

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## Technical Information

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### Specified Operating Environment

**Hardware Requirements:** For installation, a PC capable of reading a CD-ROM is required. Other prerequisites are product dependent. For a list of prerequisites, refer to the applicable product announcement:

- USS 96-042, dated March 19, 1996 (IBM Personal Communications AS/400 Version 4.1 for Windows and IBM Personal Communications AS/400 and 3270 Version 4.1 for Windows Now Include Access to System/36™, AS/400, and S/390)
- USS 96-043, dated March 19, 1996 (IBM Personal Communications AS/400 Version 4.1 for Windows 95 and IBM Personal Communications AS/400 and 3270 Version 4.1 for Windows 95)

- USS 96-044, dated March 19, 1996 (IBM Personal Communications AS/400 and 3270 Version 4.1 for OS/2 and IBM Personal Communications AS/400 Version 4.1 for OS/2 provide Complete Client Communications Support)

**Requirements for Personal Communications for Windows NT**

**System Unit:** Personal Communications AS/400 and 3270 Version 4.1 for Windows NT and Personal Communications AS/400 Version 4.1 for Windows NT require workstations that support the Microsoft Windows NT operating system. These systems include IBM and IBM-compatible workstations. These workstations must have an adequate processor, memory, and fixed disk storage capacity to support Windows NT. If Personal Communications AS/400 and 3270 Version 4.1 for Windows NT or Personal Communications AS/400 Version 4.1 for Windows NT is to be locally installed, the workstation must also be capable of reading a CD-ROM. A system unit with a 486 processor, or faster, is recommended.

**Keyboard**

- Enhanced keyboard (101-key, 102-key, 104-key)
- Space Saving keyboard
- Microsoft Natural Keyboard

**Display:** Personal Communications AS/400 and 3270 Version 4.1 for Windows NT and Personal Communications AS/400 Version 4.1 for Windows NT will use displays that are supported by Windows NT. Refer to Windows NT publications.

**Video Adapter:** Personal Communications AS/400 and 3270 Version 4.1 for Windows NT and Personal Communications AS/400 Version 4.1 for Windows NT support video adapters that are supported by Windows NT. Refer to Windows NT publications.

**RAM and Fixed Disk**

- 16MB RAM is the recommended minimum.
- 17 to 30MB minimum of fixed disk space above what Windows NT requires.

**Communication Adapters:** Personal Communications AS/400 and 3270 Version 4.1 for Windows NT and Personal Communications AS/400 Version 4.1 for Windows NT support LAN and WAN communication adapters that have device drivers written to the network driver interface specification (NDIS 3.1). The MAC drivers for supported adapters will generally be available from the adapter vendor or they will be shipped with the adapters. Support for a number of communications adapters has been included with Windows NT.

The following are additional adapters supported by Personal Communications AS/400 and 3270 Version 4.1 for Windows NT for Windows NT:

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 are supported

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 Wide Area Connector (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

**Printers**

- GDI print mode:

Personal Communications AS/400 and 3270 Version 4.1 for Windows NT and Personal Communications AS/400 Version 4.1 for Windows NT support the printers which are supported by Windows NT via the GDI.

- PDT (raw data) print mode:

Personal Communications AS/400 and 3270 Version 4.1 for Windows NT and Personal Communications AS/400 Version 4.1 for Windows NT also support printing via the following Printer Definition Tables (PDT) for the following printers:

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

File Name	Printer Name/Model
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 IBM 2381 Personal Printer Series 2
PRN4202.PDF	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 IBM 2380, 2381, 2390, 2391 printers
IBM4207.PDF	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
IBM5201.PDF	IBM 5201 Quietwriter® Printer, Model 1 IBM 5201 Quietwriter Printer, Model 2
IBM5202.PDF	IBM 5202 Quietwriter III IBM 5204 Quietwriter Printer
PRN5202.PDF	IBM 5201 Quietwriter Printer, Model 1 IBM 5201 Quietwriter Printer, Model 2 IBM 5202 Quietwriter III IBM 5204 Quietwriter Printer
IBM5216.PDF	IBM 5216 Wheelprinter
PRN5216.PDF	IBM 5216 Wheelprinter
IBM5223.PDF	IBM 5223 Wheelprinter E
ACTLZR2.PDF	Epson Action Laser2 LQ2500 mode
BJ300.PDF	Canon BJ300 CAPSL mode
LBP4.PDF	Canon LBP4 ISO mode
LQ870.PDF	Epson LQ870/1170
HPLJII.PDF	HP LaserJet II Series

The following PDFs are provided only for 5250 sessions:

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 Panasonic KX-P1624 Epson Mode

File Name	Printer Name/Model
PAN1180.PDF	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:** Personal Communications for Windows NT supports modems as follows:

For Windows NT 3.51, Personal Communications has its own list of modems.

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

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

**Software Requirements:** Software requirements for Personal Communications AS/400 and 3270 Version 4.1 for Windows NT and Personal Communications AS/400 Version 4.1 for Windows NT:

- Windows NT 3.51 or Windows NT 4.0

Software options for Personal Communications AS/400 and 3270 Version 4.1 for Windows NT and Personal Communications AS/400 Version 4.1 for Windows NT:

- Novell Netware for SAA® client
- Microsoft SNA Server client

Personal Communications will communicate with the following types of server or gateway:

- Communication Server for OS/2 Warp
- 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, Personal Communications requires AS/400 LPPs listed below (depending upon desired 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):

The licensed programs required to be installed on the IBM System/390® host computers for file transfer are:

- For MVS®/TSO — IBM 3270 PC File Transfer Program, Release 1.1.1 (5665-311)
- For VM — IBM 3270 PC File Transfer Program, Release 1.1.1 (5664-281)
- For CICS™ — CICS to 3270PC 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 AS/400 and 3270 Version 4.1 for Windows NT require the following:

- For the MVS environment:
  - ACF/VTAM® Version 3, or a later level release, 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 level release, or ACF/VTAM Version 3 Release 4.0 for Dynamic Definition of Dependent LUs.
    - ACF/VTAM V3 for VM/9370 (5684-052)
    - 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 level release 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 the above listed ACF/VTAM and ACF/NCP versions.

Personal Communications AS/400 and 3270 Version 4.1 for Windows NT 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 is product dependent. For detailed information, refer to the applicable product announcement:

- USS 96-042, dated March 19, 1996 (IBM Personal Communications AS/400 Version 4.1 for Windows and IBM Personal Communications AS/400 and 3270 Version 4.1 for Windows Now Include Access to System/36, AS/400, and S/390)
- USS 96-043, dated March 19, 1996 (IBM Personal Communications AS/400 Version 4.1 for Windows 95 and IBM Personal Communications AS/400 and 3270 Version 4.1 for Windows 95)
- USS 96-044, dated March 19, 1996 (IBM Personal Communications AS/400 and 3270 Version 4.1 for OS/2 and IBM Personal Communications AS/400 Version 4.1 for OS/2 Provide Complete Client Communications Support)

Personal Communications AS/400 and 3270 Version 4.1 for Windows NT and Personal Communications AS/400 Version 4.1 for Windows NT 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 AS/400 and 3270 Version 4.1 for Windows NT and Personal Communications AS/400 Version 4.1 for Windows NT). Users of Personal Communications AS/400 and 3270 Version 4.1 for Windows NT and Personal Communications AS/400 Version 4.1 for Windows NT 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 NT 3.51 or 4.0
- Microsoft SNA Server Windows NT Client
- Netware for SAA client
- Netware Version 3.12J (Japanese)

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

- USS 96-042, dated March 19, 1996 (IBM Personal Communications AS/400 Version 4.1 for Windows and IBM Personal Communications AS/400 and 3270 Version 4.1 for Windows Now Include Access to System/36, AS/400, and S/390)
- USS 96-043, dated March 19, 1996 (IBM Personal Communications AS/400 Version 4.1 for Windows 95 and IBM Personal Communications AS/400 and 3270 Version 4.1 for Windows 95)
- USS 96-044, dated March 19, 1996 (IBM Personal Communications AS/400 and 3270 Version 4.1 for OS/2 and IBM Personal Communications AS/400 Version 4.1 for OS/2 Provide Complete Client Communications Support)

The following are the limitations for Personal Communications for NT in all language versions:

- S/3x attachment is not supported
- Console Support to an AS/400 is not supported
- Control Unit Terminal (CUT) is not supported
- 3174 Peer Communication is not supported
- Shared Folders is not supported
- Printer Definition Tables are supported by Personal Communications AS/400 and 3270 Version 4.1 for

Windows NT and Personal Communications AS/400 Version 4.1 for Windows NT.

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 AS/400 and 3270 Version 4.1 for Windows NT and Personal Communications AS/400 Version 4.1 for Windows NT depend on the Windows NT 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.
- 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, and 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 restrictions above, 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
- Data base operations
- 3270 Diagnostic Reset Dump
- Patch facility
- Home3270 and IBM 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
  - IBM Global Network
- Line speed:
  - SDLC, Async IIN, and SNA-over-Async line speed is up to 115.2 Kbps depending on the PC and configuration.
  - Home3270 line speed is up to 115.2 Kbps depending on the PC and configuration.
  - IBM Global Network line speed is up to 115.2 Kbps depending on the PC and configuration.
- TCP/IP connectivity has the following restrictions:
  - The following functions are not available:
    - SDDL (self-defining dependent LUs)
    - SNA session-level compression and decompression
  - The maximum packet size must be less than 8,000 bytes for the file transfer.
- IPX/SPX connectivity has the following restrictions:
  - The following functions are not available:
    - SDDL (self-defining dependent LUs)
    - SNA session-level compression and decompression
- APPC and CPI-C APIs are not supported for the following attachments:
  - TCP/IP
  - IPX/SPX
  - Coaxial
- EHLLAPI:
  - Storage manage function is not supported.
  - CONPHYS is not supported.
- The following capability of the IBM 3278 and IBM 3279 Display Stations and the IBM 3287 Printer is not supported:
  - Subsystem Local Copy
- 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 on 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 AS/400 and 3270 Version 4.1 for Windows NT or Personal Communications AS/400 Version 4.1 for Windows NT.

## **Planning Information**

The Personal Communications AS/400 and 3270 Version 4.1 for Windows NT and Personal Communications AS/400 Version 4.1 for 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. This allows the customers to utilize their workstations for more applications.

**Customer Responsibilities:** You 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 the end users and/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:

- USS 96-042, dated March 19, 1996 (IBM Personal Communications AS/400 Version 4.1 for Windows and IBM Personal Communications AS/400 and 3270 Version 4.1 for Windows Now Include Access to System/36, AS/400, and S/390)
- USS 96-043, dated March 19, 1996 (IBM Personal Communications AS/400 Version 4.1 for Windows 95 and IBM Personal Communications AS/400 and 3270 Version 4.1 for Windows 95)
- USS 96-044, dated March 19, 1996 (IBM Personal Communications AS/400 and 3270 Version 4.1 for OS/2 and IBM Personal Communications AS/400 Version 4.1 for OS/2 Provide Complete Client Communications Support)

**Packaging:** IBM Personal Communications AS/400 and 3270 Version 4.11 for DOS, Windows, Windows 95, Windows NT, and OS/2 and Personal Communications AS/400 Version 4.11 for Windows, Windows 95, Windows NT, and OS/2 program packages are each distributed with the following materials:

- Proof of Entitlement
- License Information
- International Program License Agreement
- Publications
  - All publications on CD-ROM
  - Guide to Installation
  - Personal Communications Toolkit/Host On-Demand brochure
- One CD-ROM

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## **Administrative Information**

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### **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.

All Software Advantage orders must be submitted to the Software Advantage Administration Center (SAAC) in Raleigh, North Carolina.

## Physical Characteristics and Packaging

SKU	Units/ Carton	Cartons/ Pallet	Unit Weight	Unit Depth	Unit Width	Unit Height	UPC Code
64H0720	8	30	.625	2.625	8	9.625	16622
64H0736	8	30	.625	2.625	8	9.625	16623

## Terms and Conditions

### Licensing

These licensed programs are 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.

These programs are 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.

**Use Authorizations:** IBM has acceptance terms for Use Authorizations for these programs. Under these terms, customers may now acquire use authorizations for these programs by ordering them. The Proof of Entitlement (PoE) is the customer's authorization to make a single copy of the programs. The use authorizations may be ordered in any quantity. The customer must have obtained an original program package in order to acquire use authorizations. The terms and conditions of the IPLA supplied with the original program package apply to the use authorizations. No machine-readable code is included with the Proof of Entitlement package.

### Returns

The announced product is eligible for Returns as a Category 1 product as stated in the Inventory Adjustment Section of the IBM Business Partner Agreement. Quantities may be returned up to the last reported inventory level.

**Inventory Adjustments:** Personal Communications AS/400 and 3270 Version 4.11 for DOS, Windows, Windows 95, Windows NT, and OS/2 and Personal Communications AS/400 Version 4.11 for Windows, Windows 95, Windows NT, and OS/2 may be returned for credit as outlined in the Inventory Adjustment section of the applicable IBM Agreement. All licensed programs returned to IBM will be credited at the remarketer charge. All invoices should be paid in full until credit is received.

If the IPLA package has been opened, but the diskette seal has not been broken, the remarketer must accept the package and refund the money paid to the end user. These packages may be returned to IBM under the returns provisions.

**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 March 31, 1999.

### Upgrades

The program package upgrade option allows upgrade to Personal Communications AS/400 and 3270 Version 4.11 for DOS, Windows, Windows 95, Windows NT, and OS/2 from any of the following:

- IBM 3270 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 V4.0 for Windows
  - Personal Communications AS/400 and 3270 V4.0 for OS/2
  - 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
  - 3270 PC any version
  - 5250 PC any version
  - 5250 Workstation Feature any version
  - Personal Communication/5250-Windows any version
  - Personal Communication/5250-OS2 any version
  - any other IBM 3270 full function emulator program for OS/2 or Windows
- IBM APPC Networking Services for Windows Version 1.0
- Any non-IBM 3270 full function emulator programs including, but not limited to
  - EXTRA!
  - Rumba
  - IRMA Workstation
  - CGS

The program package upgrade option also allows upgrade to Personal Communications AS/400 Version 4.11 for Windows, Windows 95, Windows NT, and OS/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 V4.0 for Windows
  - Personal Communications AS/400 and 3270 V4.0 for OS/2
  - Personal Communications AS/400 V4.0 for Windows
  - Personal Communications AS/400 V4.0 for OS/2
  - Personal Communications AS/400 V4.1 — Twinax Entry Level
  - 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

These upgrades will be available through IBM Authorized Personal Computer Dealers and Industry Remarketers — Personal Computers certified to market IBM Authorized Advanced Products.

The dealer or remarketer will require validation of license for each upgrade offered. The Purchaser must certify the current license for each upgrade or provide an original invoice or proof of purchase (from the program package) with payment to the remarketer. End user customers may acquire upgrades up to the number of qualifying programs for which they are currently authorized.

***Software Advantage for Workstations Eligible Programs:***

The use authorizations and use authorizations for upgrades described in this announcement are included in the Eligible Program List for the Software Advantage for Workstations Exhibit.

Optional Software Advantage Media and Documentation packs are only available through an authorized Software Advantage remarketer and do aggregate for Software Advantage credit but are not eligible for Software Advantage discounting.

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## Charges

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Charges are unaffected by this announcement.

***Upgrade Charges:*** Charges are unaffected by this announcement.

***Use Authorization Charges:*** Charges are unaffected by this announcement.

***Use Authorization for Upgrade Charges:*** Charges are unaffected by this announcement.

***Trademarks***

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