Software Product Description

PRODUCT NAME: HP PATHWORKS 32 V7.4   **SPD 56.33.09**

DESCRIPTION

HP PATHWORKS 32 is a member of the PATHWORKS family of software products that provides PC connectivity in local and wide area networks. Windows NT 4.0 (Intel), Windows 2000, Windows XP Professional, and Windows 2003 PCs can be connected to the HP Open-VMS Operating System, the HP Tru64 UNIX Operating System, and other supported Windows systems and can use selected resources of those systems. PATHWORKS 32 V7.4 is not supported on Windows 95, Windows 98, or Windows NT 4.0 on Alpha.

PATHWORKS 32 software layers on top of valid retail configurations of Windows Windows NT 4.0, Windows 2000, Windows XP Professional, and Windows 2003 and complements Microsoft networking software, so that different types of users can share information across the entire organization.

PATHWORKS 32 software ships on one software CD-ROM, which contains:

- Network Connectivity components

- eXcursion X Server

- PowerTerm 525 terminal emulator

- Online help and documentation PDF files in English, as well as in French, German, and Czech for selected PATHWORKS 32 components

- Localized user interfaces and documentation in French, German, and Czech for selected PATHWORKS 32 components

This Software Product Description (SPD) describes:

- Network Connectivity components, eXcursion X Server, and PowerTerm 525 terminal emulator. Unless stated otherwise, all functions are available on Windows NT 4.0, Windows 2000, Windows XP Professional, and Windows 2003.

- Hardware and software requirements.

- Ordering information.

- Software product services.

- Software warranty.

NETWORK CONNECTIVITY COMPONENTS

Transport Support

PATHWORKS 32 software includes networking transports developed by HP for the PC. They are implemented as 32-bit, protected-mode drivers. The following transports provide connectivity to other systems supporting the same transport:

- DECnet Phase IV, a local area and wide area transport — including support for DECnet over TCP/IP and support for WinSock 2

- LAT, Telnet, and CTERM communications transports for use with terminal emulators

Remote Computing (Windows NT 4.0)

PATHWORKS 32 software provides support for remote DECnet users on Windows NT 4.0 by providing the following features:

* Support for any application and access to any network service (file and print services, terminal emulation, and file transfer) that uses DECnet Phase IV transports and does not require broadcast

* DDCMP datalink protocol

* Ability to establish connections through a Windows application (Connection Manager)

  – On Windows NT, Connection Manager acts as a dialer application.

PATHWORKS 32 software provides connectivity through a PC's asynchronous communications port for DECnet using the DDCMP protocol with a modem.

Connection Manager — Connection Manager is the graphical user interface for PATHWORKS 32 Remote Access capabilities. It provides a connection diary for configuring different connections, connecting and disconnecting on Windows NT, and managing a database of available connection choices.

DECnet Management

PATHWORKS 32 software supports the Network Control Program (NCP) — a utility that manages DECnet and displays information about network conditions, characteristics, and performance.

PATHWORKS 32 software provides property pages that support the management of the DECnet transport through the Windows interface.

File and Print Services Over DECnet

PATHWORKS 32 software provides the ability to browse, connect to, and disconnect from PATHWORKS servers over the DECnet transport. Users access file and print services through the Windows NT 4.0, Windows 2000, Windows XP Professional, and Windows 2003 interface. Users can also connect to and disconnect from their services from the DOS prompt.

DECnet Utilities

PATHWORKS 32 software includes the following DECnet utilities:

* File Access Listener (FAL) and Windows-based Network File Transfer (NFT) utilities for transferring files over the DECnet transport

* Job Spawner

* Network Management Listener (NML)

DECnet Over TCP/IP

DECnet over TCP/IP functionality, available in HP DECnet-Plus for OpenVMS and HP DECnet-Plus for Tru64 UNIX systems, enables DECnet applications to use TCP/IP as a network service rather than (or in addition to) traditional DECnet network services. For example, DECnet over TCP/IP allows DECnet-based applications to run over TCP/IP backbone networks. This functionality on PC platforms provides a consistent, cross-platform approach to the problem of DECnet-to-TCP/IP migration.

Note that only outgoing connections are supported (see the Release Notes for more information).

WinSock 2 Service Provider

PATHWORKS 32 software contains a service provider for the DECnet transport. This feature allows application developers to write WinSock 2 compliant applications that can use the DECnet transport.

WinSock 2 support is part of the Windows NT 4.0, Windows 2000, Windows XP Professional, and Windows 2003 operating systems. PATHWORKS 32 automatically registers DECnet as a WinSock 2 service provider on these systems.

Remote Procedure Call (RPC)

PATHWORKS 32 software supports the Windows NT 4.0 Remote Procedure Call (RPC) mechanism over the DECnet transport.

Password Assistant

The PATHWORKS 32 Password Assistant provides single-logon capabilities. Enabled applications in PATHWORKS 32 software that require a user name and password store the log-on data in a central location.

PowerTerm 525 uses Password Assistant to store multiple passwords in an encrypted form on local PCs. Once passwords are defined, PowerTerm 525 can retrieve log-on information from the encrypted file—reducing the number of times users must type a password.

Password Assistant is independent of the server environment, so it can store LAN Manager and application passwords.

Application Programming Interfaces

PATHWORKS 32 provides application programming interfaces (APIs) that provide a consistent interface across multiple transports and transport protocols. PATHWORKS 32 also provides dynamic link libraries (DLLs) for Microsoft Windows programming. Refer to the PATHWORKS Information Shelf for details.

eXcursion X Server

The eXcursion X Server allows desktop users to run X Window System applications on remote OpenVMS or UNIX systems.

For example, users can simultaneously run an X terminal session (such as DECterm), an X mail program (such as Mailtool from Sun), and a Windows application (such as Microsoft Word for Windows) on their PCs. They can cut and paste information from one type of application to another.

The eXcursion X Server is based on Release 6.3 of the X Window System Version 11 protocol (X11R6.3) from The Open Group. However, the following extensions introduced with X11R6.3 are not supported: Remote Execution, Web Browser Plug-In, Security, Application Group, Print, and LBX.

eXcursion provides the following features:

- Support for TCP/IP from Microsoft and DECnet from PATHWORKS 32

- Support for BackingStore and SaveUnders in multi-window as well as single-window mode

- Context-sensitive Help on the eXcursion Control Panel

- The ability to attach sounds to events

- An enhanced logging window with scroll bars and the ability to save and print log messages

- Font failover capability that lets the server select an alternate font path, if a remote font path element is not available

- Availability of LK411 keysyms

- Enhanced line-drawing performance using Windows graphics device interface (GDI)

- Support for Euro currency symbol

PowerTerm 525 Terminal Emulator

PATHWORKS 32 software includes the PowerTerm 525 terminal emulator. The PowerTerm 525 terminal emulator lets users establish up to 10 terminal sessions with a remote host computer.

The PowerTerm 525 terminal emulator supports a wide range of text terminals — up to VT525. PowerTerm 525 is rich in features, including an enhanced cut-and-paste capability, automatic change in font size after a change in screen size, graphical keyboard mapping, and file transfer options.

The PowerTerm 525 terminal emulator:

- Works with the 32-bit implementations of Telnet, LAT, and CTERM supplied with PATHWORKS 32 and also supports direct connections to COM ports.

- Supports the storage and retrieval of passwords from a secure local location to log on to the host. The user enters the log-on information once. The Password Assistant facility in PATHWORKS 32 software provides this single-logon support.

- Includes scripting facilities that enable the automation of frequently executed functions. The PowerTerm 525 software provides backward compatibility with scripting commands from the VT320 application, formerly included in PATHWORKS 32, in addition to supplying a more powerful scripting language.

- Uses standard Windows features (pull-down menus, dialog boxes, scroll bars).

- Supports the Euro currency symbol.

ONLINE DOCUMENTATION

Context-sensitive online documentation for individual components is available from Help buttons and Help topics in the user interface.

In addition, the PATHWORKS Information Shelf provides access to the online Help for Network Connectivity components. The Information Shelf includes:

- A master contents, index, and search capability.

- Introductory information.

- Comprehensive list and description of client messages. Message descriptions are translated.

- Additional Help topics such as Application Programming Interfaces and Managing DECnet Nodes.

The release notes for the PATHWORKS 32 components are translated and available on line as follows:

- PWREADME.TXT in the PATHWORKS 32 CD-ROM's top-level directory contains the Network Connectivity release notes.

- NOTES_xx.TXT (where xx indicates the specific language) in the PATHWORKS 32 CD-ROM's \Xcursion\Xcursion\Common\ directory contains the eXcursion Release Notes.

- PTREADME.TXT in the PATHWORKS 32 CD-ROM's \PTW\INTEL or \PTW\ALPHA directory contains the PowerTerm 525 Release Notes.

A summary of new PATHWORKS 32 features (WHATSNEW.TXT file) is available on line in the PATHWORKS 32 CD-ROM's top-level directory.

MULTILINGUALITY

All PATHWORKS 32 components are available in American English. Many PATHWORKS 32 components are translated into three additional languages: French, German, and Czech — with separate executable variants for each language.

Some components were implemented using the Multilingual Application model, in which one executable version of the component allows dynamic switching of the user interface language and character set. The user selects the language from a menu, and the interface changes immediately.

The following components provide dynamic switching of languages:

- Connection Manager (Remote Access)

- eXcursion[1]

- Password Assistant

- PowerTerm 525[2]

Though not dynamically switchable, translated versions of online Help are provided for most other PATHWORKS 32 components. You can install these translated files by running PATHWORKS 32 Setup with a command line switch. For more information, see the information on installing local language versions in the *PATHWORKS 32 Installation Guide*.

In addition, the *PATHWORKS 32 Installation Guide* can be ordered in American English, Czech, French, and German. The *PATHWORKS 32 eXcursion User's Guide* can be ordered in American English, French, and German.

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[1] Translated into French and German only. The eXcursion Release Notes are also translated into French and German.

[2] PowerTerm Release Notes are also translated into French, German, and Czech.

RESTRICTIONS AND LIMITATIONS

The following restrictions apply to PATHWORKS 32:

- Diskette Boots

PATHWORKS 32 software does not support PCs that are booted from a diskette.

- Shared Operating System Configurations

PATHWORKS 32 software does not support configurations that run Windows NT 4.0, Windows 2000, Windows XP Professional, or Windows 2003 from a network applications server.

- Network Adapter Card Support

Ethernet and FDDI adapters must also support a software-configurable network address using the NetworkAddress keyword.

HARDWARE AND SOFTWARE REQUIREMENTS

The following sections list hardware and software requirements for Windows NT 4.0, Windows 2000, Windows XP Professional, and Windows 2003 PCs.

Windows NT 4.0 System Requirements

PATHWORKS 32 software running on Windows NT 4.0 systems requires the following minimum hardware and software configuration:

- Intel multiprocessor or single processor system referenced in Microsoft's Hardware Compatibility List (HCL) for Windows NT 4.0.

- Windows NT 4.0 operating system, with NetBEUI installed — original release with SP3, SP4, SP5, or SP6A. Windows NT Server V4.0, Terminal Server Edition not supported.

- Minimum Microsoft operating system hardware requirements, with additional memory and disk resources for PATHWORKS 32. See the Disk Space Requirements section for more information.

Windows 2000 System Requirements

PATHWORKS 32 software running on Windows 2000 systems requires the following minimum hardware and software configuration:

- Intel multiprocessor or single processor system referenced in Microsoft's Hardware Compatibility List (HCL) for Windows 2000.

- Windows 2000 Professional, Windows 2000 Server, or Windows 2000 Advanced Server operating system. Windows 2000 Terminal Services are not supported.

- Minimum Microsoft operating system hardware requirements, with additional memory and disk resources for PATHWORKS 32. See the Disk Space Requirements section for more information.

Windows XP Professional System Requirements

PATHWORKS 32 software running on Windows XP Professional systems requires the following minimum hardware and software configuration:

- Intel multiprocessor or single processor system referenced in Microsoft's Hardware Compatibility List (HCL) for Windows XP.

- Windows XP Professional operating system. Windows XP Home Edition is not supported. Windows XP Terminal Services are not supported. Windows XP 64-bit Edition is not supported.

- Minimum Microsoft operating system hardware requirements, with additional memory and disk resources for PATHWORKS 32. See the Disk Space Requirements section for more information.

Windows 2003 System Requirements

PATHWORKS 32 software running on Windows 2003 systems requires the following minimum hardware and software configuration:

- Intel multiprocessor or single processor system referenced in Microsoft's Hardware Compatibility List (HCL) for Windows 2003

- Windows Server 2003 Standard Edition or Windows Server 2003 Enterprise Edition operating system. Windows Server 2003 Web Edition, Windows Server 2003 Datacenter Edition, and Windows Server 2003 64-Bit Edition are not supported. Windows Terminal Services (part of Windows 2003 base functionality) is not supported.

- Minimum Microsoft operating system hardware requirements, with additional memory and disk resources for PATHWORKS 32. See the Disk Space Requirements section for more information.

DECnet Over TCP/IP Requirements

- OpenVMS Operating System for Alpha V7.2-2, V7.3-1, or V7.3-2

- OpenVMS Operating System for VAX V7.2 or V7.3

  - DECnet-Plus V7.2-1, V7.3-1, or V7.3-2 for OpenVMS Alpha

  - DECnet-Plus V7.2 or V7.3 for OpenVMS VAX

- Tru64 UNIX Operating System V4.0G or Tru64 UNIX Operating System V5.1, V5.1A or V5.1B

DECnet-Plus for DIGITAL UNIX UNIX V4.0C or DECnet-Plus for Tru64 UNIX V5.0B

Disk Space Requirements

PATHWORKS 32 software is stored on the PC's local storage device.

A CD-ROM reader is required on at least one system in the network to load the software. Installation can be performed from the local drive or from the server system.

The minimum disk space required for the installation of PATHWORKS 32 software is as follows:

Network Connectivity components (Typical Install)	**6 MB**[1]
eXcursion X Server (Express Installation)	**25 MB**[2]
PowerTerm 525 terminal emulator	**15 MB**

[1]Disk space requirements for individual PCs vary, depending on the configuration. Local language variants require approximately 350 KB per language.

[2]This number is for the installation of eXcursion and its default fonts. More disk space is required to install additional fonts.

Network Connections Support

PATHWORKS 32 software supports any of the connections shown in Table 1 and Table 2.

Table 1
LAN Connections

Datalink	Transport
Ethernet	DECnet, LAT
FDDI	DECnet, LAT

Table 2
WAN Connections

Physical Link	Datalink	Transport
Asynchronous serial link (modem only)	DDCMP	DECnet

Network Adapter Card Support

PATHWORKS 32 software adheres to the following standards:

- Windows NT 4.0 — NDIS V4.0

- Windows 2000 — NDIS V5.0

- Windows XP — NDIS V5.0

- Windows 2003 — NDIS V5.1

Every effort has been made to ensure that the software adheres to the interfaces documented in these standards; however, because individual vendors' interpretations of these specifications can vary, some applications might not function in the PATHWORKS 32 network environment.

PATHWORKS 32 software requires a Windows NT 4.0, Windows 2000, Windows XP Professional, or Windows 2003 supported Ethernet or FDDI adapter and driver.

FDDI drivers must be configured to emulate Ethernet. The FDDI MaxFrameSize parameter must be set to a value of 1498 or less.

Asynchronous Connection Requirements

Connection to the Public Switched Telephone Network (PSTN) requires a modem supported by the base operating system. PTT (Postal, Telephone, and Telegraph) certification is required in most countries.

ORDERING INFORMATION

Software Licensing

You must have a PATHWORKS 32 system license for each PC using any portion of the PATHWORKS 32 software package. You can get these licenses in one of the following ways:

- For new users who do not need a license to access PATHWORKS servers, order *HP PATHWORKS 32 System* license(s) as follows:

  QM–5LKAA–AB — 1 license
  QM–5LKAA–AC — 10 licenses (1 PAK)

QM–5LKAA–AD — 25 licenses (1 PAK)
QM–5LKAA–AE — 50 licenses (1 PAK)
QM–5LKAA–AF — 100 licenses (1 PAK)
QM–5LKAA–AG — 250 licenses (1 PAK)
QM–5LKAA–AH — 500 licenses (1 PAK)
QM–5LKAA–AJ — 1000 licenses (1 PAK)

To order an Upgrade license to PATHWORKS 32 V7.4, use the following part numbers:

QM–5LKAA–CA — 1 license, multiple licenses per PAK
QM–5LKAA–CB — 1 license, 1 license per PAK
QM–5LKAA–CC — 10 licenses (1 PAK)
QM–5LKAA–CD — 25 licenses (1 PAK)
QM–5LKAA–CE — 50 licenses (1 PAK)
QM–5LKAA–CF — 100 licenses (1 PAK)
QM–5LKAA–CG — 250 licenses (1 PAK)
QM–5LKAA–CH — 500 licenses (1 PAK)
QM–5LKAA–CJ — 1000 licenses (1 PAK)

- If you have proof-of-license for any prior version of PATHWORKS 32 or for any version of any one of the following licenses, you can purchase an Upgrade license to *HP PATHWORKS 32* V7.4:

  – *PATHWORKS for DOS and Windows (LAN Manager)* CCS
  – *PATHWORKS for DOS and Windows (NetWare)* CCS
  – *PATHWORKS for DOS and Windows* CNS
  – *PATHWORKS for Windows NT (LAN Manager)* CCS
  – *PATHWORKS for Windows NT* CNS
  – *PATHWORKS for OS/2® (LAN Manager)* CCS
  – *PATHWORKS for OS/2 (NetWare)* CCS
  – *PATHWORKS for OS/2* CNS
  – eXcursion

- For new users who also need PATHWORKS Client Access license(s) to access *PATHWORKS V5.0F for OpenVMS (LAN Manager)* and/or HP Advanced Server for OpenVMS servers, order one of the HP Enterprise Integration Client for Microsoft Windows license package(s). Each package includes one or more of the following licenses:

  – HP PATHWORKS 32 V7.4 System license (QM–5LKAA–A*)

  – HP PATHWORKS V6.1 for OpenVMS (Advanced Server) and/or HP Advanced Server V7.3 or 7.3A for OpenVMS Client Access license (QM–5SUAA–A*)

  – HP Office Server Client Access license (QM–5TD9A–A*)

To order these packages, use the following part numbers:

QP–5LWAA–AB — 1 license package
QP–5LWAA–AC — 10 license packages

QP–5LWAA–AD — 25 license packages
QP–5LWAA–AE — 50 license packages
QP–5LWAA–AF — 100 license packages
QP–5LWAA–AG — 250 license packages
QP–5LWAA–AH — 500 license packages
QP–5LWAA–AJ — 1000 license packages

For complete terms and conditions related to PATH-WORKS 32 licenses, refer to the back of your PAK or consult the Software Licensing Web site at:

http://www.hp.com/products/software/info

Software Media and Documentation Kits

• PATHWORKS 32 Media and Documentation Kit (QA–5LKAA–H8) includes:

  – CD-ROM

  – *PATHWORKS 32* Cover Letter

  – *PATHWORKS 32* Software Product Description

  – *PATHWORKS 32 Installation Guide*

  – *PATHWORKS 32 eXcursion User's Guide*

• PATHWORKS 32 Optional Documentation kit (QA–5LKAA–GZ — American English) includes:

  – *PATHWORKS 32 Installation Guide*

  – *PATHWORKS 32 eXcursion User's Guide*

• PATHWORKS 32 Translated Documentation:

  – The following kits contain translated versions of the *PATHWORKS 32 Installation Guide* and the *PATHWORKS 32 eXcursion User's Guide*.

    QA–5LKPA–GZ — French
    QA–5LKGA–GZ — German

  – The following kit contains a translated version of the *PATHWORKS 32 Installation Guide*.

    QA–5PBVA–GZ — Czech

Note: The availability of these software product options and services can vary by country. Customers should contact their local HP office for information on availability.

SOFTWARE PRODUCT SERVICES

A variety of service options are available from HP. For more information, contact your local HP office.

SOFTWARE WARRANTY

This software is provided by HP with a 90-day conformance warranty in accordance with the HP warranty terms applicable to the license purchase.

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