



# Software Product Description

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**PRODUCT NAME: PATHWORKS V4.1B for Windows NT**

**SPD 51.56.03**

## **DESCRIPTION**

PATHWORKS™ V4.1B for Windows NT™ is a member of the PATHWORKS family of software products that provides PC networking and network operating systems (NOS) integration in local and wide area networks. PATHWORKS integrates the broadest set of PCs, servers, NOSs, network transports, and protocols and provides the foundation for client-server applications and corporate information exchanges.

PATHWORKS V4.1B for Windows NT integrates the Windows NT V3.51 environment with other PATHWORKS systems, enabling PATHWORKS for DOS, Windows®, Macintosh®, and OS/2® clients to access and share Windows NT systems as well as enabling PATHWORKS for Windows NT systems to access and share PATHWORKS for OpenVMS, DIGITAL UNIX®, ULTRIX, OS/2, and SCO™ UNIX servers.

PATHWORKS provides a framework for integrating personal computers into an organization's total information system so that different types of users can share information, large system resources, and network services across the entire organization.

## **PATHWORKS V4.1B WINDOWS NT FEATURES**

### **Applications**

PATHWORKS V4.1B for Windows NT provides an end node (non-routing) implementation of the DECnet™ Phase IV protocol that enables a Windows NT system to operate as a peer node in a DECnet network. PATHWORKS for Windows NT supports access to World Wide Web and the following DECnet applications:

- Task to Task communications (allows cooperating programs running on any DECnet node to exchange data)

- File transfer (character-cell NFT in binary compatibility mode)
- Job Spawner (spawns DECnet server applications on demand)
- File Access Listener
- Mail-11 Client (character-cell mail in binary compatibility mode)
- Binary compatibility support for DOS character cell applications

PATHWORKS V4.1B for Windows NT enables a Windows NT client to access file, print, and application services using DECnet on any PATHWORKS server. It also enables a Windows NT server to offer file, print, and application services over DECnet to any PATHWORKS client.

### **Transports**

PATHWORKS V4.1B for Windows NT supports access to PATHWORKS servers and clients via DECnet. TCP/IP and NetBEUI transports, provided with the Windows NT Workstation and Windows NT Server, can also be used to access PATHWORKS environments if the other systems support the same transport.

### **Network Interfaces**

PATHWORKS V4.1B for Windows NT fully supports any one of the following network interfaces to a device that supports the same network interface:

- Ethernet
- Token Ring
- FDDI
- Asynchronous DDCMP (serial line for Async DECnet)

### **Token Ring Source Routing**

In a Token Ring environment, PATHWORKS V4.1B for Windows NT users can communicate with other DECnet and TCP/IP (supplied within Windows NT) nodes that are connected by multiple rings using source routing bridges.

### **Remote Communications over Telephone Lines**

PATHWORKS V4.1B for Windows NT provides the Digital Data Communications Protocol (DDCMP), which supports asynchronous DECnet connections over a serial line connected directly or through a modem.

Using the DDCMP protocol, users can access all the network services (file, print) available on the corporate network from a remote location over telephone lines using a range of baud rates.

**RAS Support**

PATHWORKS V4.1B for Windows NT supports coexistence with RAS. PATHWORKS V4.1B can act as a RAS gateway, connecting Remote Access clients to PATHWORKS hosts on a LAN. The DECnet transport on the RAS server is used to reroute Remote Access client requests to PATHWORKS servers.

**Printing Services**

A PATHWORKS V4.1B for Windows NT user can print to printers connected to the following:

- PATHWORKS servers
- Windows NT clients
- LaserWriter® on LocalTalk® or Ethernet (through an OpenVMS server running PATHWORKS for Macintosh)

The PrintServer Software for Windows NT is included with the PATHWORKS V4.1B for Windows NT CD-ROM kit. This software provides seamless wide area access to network printing features on your Ethernet network. Refer to the PrintServer SPD (48.09.xx) for a detailed product description.

**Management**

PATHWORKS V4.1B for Windows NT offers the following network management tools:

- Network Control Program (NCP) is a utility program that manages network interactions and displays information about network conditions, characteristics, and performance.
- Event Logger (EVL) logs network events.

DECnet network management is available using the Network Control Program (NCP) icon in the PATHWORKS program group. Logged events can be viewed using the Event Viewer icon in the Administrative Tools program group.

**Installation**

Installation of the PATHWORKS for Windows NT software is done using the Windows NT Network applet in the Control Panel.

**License Management**

PATHWORKS V5 servers implement license management using DIGITAL's License Management Facility (LMF). PATHWORKS V4.1B for Windows NT includes a license responder, which allows a PATHWORKS V4.1B for Windows NT client to connect to a PATHWORKS V5.x server.

**File Transfer**

PATHWORKS V4.1B for Windows NT includes the File Access Listener (FAL) and the DOS Network File Transfer (NFT) utilities. FAL and NFT allow users to share files between local and remote systems. The NFT utility is a 16-bit application that makes use of Windows NT 16-bit binary compatibility functions.

FAL allows remote DECnet nodes to access files on the local PATHWORKS for Windows NT system.

NFT is a network program that allows access to remote files using various attributes on any DECnet system running FAL.

**Mail Services**

PATHWORKS V4.1B for Windows NT software includes DOS character-cell Mail, which makes use of Windows NT 16-bit binary compatibility functions. Mail allows the Windows NT system to send and receive messages and documents to users of MAIL software on systems that operate within the same DECnet network.

**Internet Access**

PATHWORKS V4.1B for Windows NT software includes a Windows application, called Mosaic™ from DIGITAL, that provides access to the “information superhighway,” the global Internet. The Internet is a world-wide collection of many computers and computer networks that communicate using TCP/IP protocol.

Mosaic from DIGITAL provides access to the World Wide Web (WWW), a multimedia hypertext repository of information available on the Internet. With Mosaic from DIGITAL, you can access a wide range of information on the Internet with one, easy-to-use, Windows interface.

To access information on the Internet, the PC must be part of a computer network that is part of the Internet, and the PC must use the TCP/IP protocol. If you do not have access to the Internet, it is possible to use Mosaic from DIGITAL to access a company wide web or a local workgroup web for sharing information.

**Programming Support**

A separate Programmer's directory provides tools for developers to write and port custom applications. It enables porting of DOS/Windows based 16-bit applications and ULTRIX-based applications to 32-bit native Windows NT applications. Libraries include PATHWORKS Socket library and the the DECnet utility library as dynamic link libraries (DLLs). A helper DLL for WinSock DECnet support is provided.

DECnet support is provided for WinSock, NetBIOS™, LAN Manager, and DCE Remote Procedure Call APIs so that applications that use Windows NT APIs can work in DECnet networks.

Online documentation is integrated with the Windows NT Help System for easy reference. This documentation details the PATHWORKS Socket interface and build procedures for the three programming API interfaces.

### Multilinguality

Some PATHWORKS V4.1B for Windows NT components are available in languages other than English. Contact your local DIGITAL representative for a list of the available languages.

### HARDWARE REQUIREMENTS

PATHWORKS V4.1B for Windows NT requires the same Intel® and Alpha hardware configuration as Microsoft® Windows NT.

MIPS™ platforms are not supported.

PATHWORKS V4.1B for Windows NT only supports Network Interface Cards that allow the station address to be set.

### SOFTWARE REQUIREMENTS

- Microsoft Windows NT Server V3.51 or Microsoft Windows NT Workstation V3.51

### ORDERING INFORMATION

#### Software Licensing

You must purchase a *DIGITAL PATHWORKS 32 V7.0* license for each PC using any portion of the PATHWORKS V4.1B for Windows NT software product.\* You may obtain these licenses in one of the following ways:

- For new users who do not need a license to access PATHWORKS servers, order *DIGITAL PATHWORKS 32 V7.0A 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)

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\* **Discontinued License Information.** The following licenses are no longer sold but continue to be valid and grant the right to use the PATHWORKS V4.1B for Windows NT software:

PATHWORKS V4.1 for Windows NT (LAN Manager) CCS - (QM-2K5AA-Ax)  
PATHWORKS V4.1 for Windows NT CNS - (QM-2K6AA-Ax)

- For new users who also need PATHWORKS *Designated Access* license(s) to access PATHWORKS (LAN Manager) servers, order one of the *DIGITAL Enterprise Integration Client for Microsoft Windows* license package(s). Each package includes one or more of the following licenses:

- DIGITAL PATHWORKS 32 V7.0 System license (QM-5LKAA-A\*)
- PATHWORKS V5.0 (LAN Manager) Designated Access license (QM-2CLAA-A\*)
- TeamLinks™ Mail V2.7 for Windows System license (QM-ON18A-A\*)
- DIGITAL MAPI Driver V1.0 for ALL-IN-1 System license (QM-5KEAA-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

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- PATHWORKS V5.0 (NetWare) Designated Access license (QM-2CMAA-A\*)

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- QP-03WAA-AE — 50 license packages
- QP-03WAA-AF — 100 license packages
- QP-03WAA-AG — 250 license packages
- QP-03WAA-AH — 500 license packages
- QP-03WAA-AJ — 1000 license packages

- If you have proof-of-license for any version of any one of the following licenses, you may purchase an *Upgrade* license to DIGITAL PATHWORKS 32 V7.0. Combined with your original license, this Upgrade license provides the right to use PATHWORKS V4.1B for Windows NT software, as well as DIGITAL PATHWORKS 32 V7.0 and several other software products. (See the DIGITAL LICENSE AND UPGRADE AGREEMENTS section at the end of this document for details.)

- PATHWORKS for Windows NT (LAN Manager) CCS
- PATHWORKS for Windows NT CNS
- PATHWORKS for DOS and Windows (LAN Manager) CCS
- PATHWORKS for DOS and Windows (NetWare) CCS

- PATHWORKS for DOS and Windows CNS
- PATHWORKS for OS/2 (LAN Manager) CCS
- PATHWORKS for OS/2 (NetWare) CCS
- PATHWORKS for OS/2 CNS
- eXcursion

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- QM-5LKAA-CA — 1 license, multiple licenses per PAK
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- 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)

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**Note**

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If you own a PATHWORKS CCS license, please note that your new DIGITAL PATHWORKS 32 V7.0 license applies only to the PATHWORKS V4.1B for Windows NT software. It does not provide you with rights to use PATHWORKS servers, as your current CCS license does.

You can and should continue to use your current CCS license with your PATHWORKS V4.1B for Windows NT software to access your PATHWORKS V5.0 servers. You may also choose to license manage your new DIGITAL PATHWORKS 32 V7.0 licenses; however, this is not required.

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Refer to the DIGITAL LICENSE AND UPGRADE AGREEMENTS section of this SPD for a description of the terms associated with these license types.

#### Media and Documentation Kits

- Media and Documentation Kit:
  - QA-2K5AA-HC.4.1B (high-density, 3.5 inch diskettes) for Intel systems.
  - QA-2K5AA-H8.4.1B (CD-ROM) for Alpha and Intel systems.
- Additional Documentation Kit QA-2K5AA-GZ.4.1B includes:
  - PATHWORKS for Windows NT File Transfer Guide
  - PATHWORKS for Windows NT Mail User's Reference
  - PATHWORKS for Windows NT Network Management Guide
  - PATHWORKS for Windows NT Quick Start Card

PATHWORKS for Windows NT Network Programming Reference

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**Note**

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The availability of these software product options and services may vary by country. Customers should contact their local DIGITAL office for information on availability.

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Server Program:

PATHWORKS V5.0 for OpenVMS (LAN Manager)

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Server Program:

PATHWORKS V6.1 for DIGITAL UNIX (Advanced Server)

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<sup>1</sup> Formerly referred to as *FPS* licenses

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PATHWORKS for ULTRIX, V1.3  
PATHWORKS V6.1 for DIGITAL UNIX (Advanced Server)  
PATHWORKS for SCO UNIX, V1.1

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Server Programs:

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PATHWORKS V6.0 for DOS and Windows  
PATHWORKS V4.1 for Windows NT  
PATHWORKS V5.1 for OS/2  
eXcursion V2.1

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