

Software Product Description

PRODUCT NAME: PATHWORKS WAN ACCESS
(DOS/Windows™), Version 1.0

SPD 51.57.00

DESCRIPTION

PATHWORKS WAN ACCESS (DOS/Windows) V1.0 software is one member of the PATHWORKS family of software products. It provides PC networking and Networking Operating Systems (NOS) integration, in local and wide area networks.

PATHWORKS integrates the broadest set of PCs, servers, NOSs, and network transports and protocols and provides the foundation for client-server applications and corporate information exchanges. PATHWORKS provides a framework for integrating personal computers into an organization's total information system, so different types of users can share information, large system resources, and network services across the entire organization.

PATHWORKS WAN ACCESS (DOS/Windows) V1.0 provides WAN access to small isolated offices with a limited number of PCs connected as a LAN.

PATHWORKS WAN ACCESS (DOS/Windows) FEATURES

Summary

PATHWORKS WAN ACCESS (DOS/Windows) V1.0, referred to as PATHWORKS WAN ACCESS hereafter, offers isolated LAN offices and other small LAN networks connectivity through a PSDN (Packet Switched Data Network) or PSTN (Public Switched Telephone Network) to remote sites such as the company head office or the corporate information-exchange network.

PATHWORKS WAN ACCESS allows Ethernet or Token Ring LANs access to X.25 (or X.32) networks through a single, non-dedicated WAN connected PC.

PATHWORKS WAN ACCESS is an add-on to PATHWORKS X.25 (DOS/Windows) V5.0.

_____ **Notes About PATHWORKS X.25 (DOS/Windows) V5.0** _____

PATHWORKS X.25 (DOS/Windows) V5.0 provides connectivity for a single PC over an X.25 link (PSDN).

PATHWORKS X.25 (DOS/Windows) V5.0 also supports the X.32 facility which provides access to the X.25 PSDN indirectly from the telephone network (known as a PSTN) using a dial-up connection.

PATHWORKS X.25 (DOS/Windows) V5.0 gives users the facilities to install and operate PATHWORKS V5 for DOS and Windows client software on a remote PC which is connected to a PATHWORKS server over an X.25 PSDN. It supports services and applications that run with TCP/IP or DECnet phase IV as the transport protocol over the PSDN.

It is a software add-on to PATHWORKS V5 for DOS and Windows client software. The PATHWORKS V5 for DOS and Windows client software is a prerequisite product.

Functional Details

PATHWORKS WAN ACCESS enhances a PC connected to the WAN (e.g. the Packet Switched Data Network (PSDN)) with routing features. This client, called the *Connector Node*, provides WAN access to other clients (up to five including the Connector Node) located on the same Ethernet or Token Ring LAN.

The connected clients could be any type of PATHWORKS client (DOS or Windows, Macintosh®, OS/2, or Windows NT clients) or any end node running TCP/IP or DECnet phase IV.

PATHWORKS WAN ACCESS offers WAN connectivity to several clients connected as a local LAN. It functionally enhances a single PATHWORKS X.25 (DOS/Windows) V5.0 client PC into a WAN Connector Node without affecting its functioning as a normal PATHWORKS client. Therefore all clients that are part of the LAN gain access to the PSDN network through the Connector Node.

The Connector Node requires the following software:

- PATHWORKS V5 for DOS and Windows client
- PATHWORKS X.25 (DOS/Windows) V5.0
- PATHWORKS WAN ACCESS (DOS/Windows) V1.0.

PATHWORKS WAN ACCESS supports simultaneous use of both the TCP/IP and DECnet Phase IV transport protocols, offering the LAN clients the choice of communication based on either or both of these protocols.

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The remote LAN clients can be connected with the Connector Node PC through either Token Ring or Ethernet LAN topology.

PATHWORKS WAN ACCESS supports the connection of up to five (including the connector node) LAN PATHWORKS clients to the WAN.

PATHWORKS WAN ACCESS supports the SNA LAN PC Gateway solution which provides SNA connectivity to any PCs on the LAN. For more information, contact your local Digital office.

PATHWORKS WAN ACCESS also supports the X.32 facility provided by PATHWORKS X.25 (DOS/Windows) V5.0 and therefore provides access to the X.25 PSDN indirectly from the telephone network using a dial-up connection.

Support of PATHWORKS Applications and Services

Applications and Services located on the remote LAN

All the PCs on the LAN, including the Connector Node, are capable of running PATHWORKS V5 for DOS and Windows client applications and services.

For more details of these supported services and applications, refer to the PATHWORKS V5 for DOS and Windows Software Product Description (SPD 55.07.xx).

Applications and Services provided over the WAN link

All the PCs on the LAN, including the Connector Node, are capable of running PATHWORKS V5 for DOS and Windows client applications and services over the WAN link that use TCP/IP or DECnet Phase IV as the transport protocol (with some restrictions, e.g. the WAN link does not support broadcast messages).

The applications or services listed below are provided:

- File and Print Services
- Terminal Emulators
- LAN Manager Version 2.2
- Microsoft® Windows V3.1
- Programming Support

File and Print Services

PATHWORKS WAN ACCESS supports all PATHWORKS V5 for DOS and Windows client file and print services available over TCP/IP or DECnet transport protocols. This allows users to connect, use files, and disconnect from PATHWORKS servers. Files can be printed on locally or remotely networked printers.

Printers attached to a remote LAN PC can be configured as networked printers.

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Terminal Emulators

PATHWORKS WAN ACCESS supports the two PATHWORKS terminal emulators VT320 and SETHOST over CTERM (DECnet) or Telnet (TCP/IP) sessions.

LAN Manager Version 2.2

LAN Manager Version 2.2 provides the same support as PATHWORKS V5 for DOS and Windows, with the following NetBIOS Interface support limitations. NetBIOS naming and datagram service are not supported, as they can not be forwarded over the WAN link.

The NetBEUI transport is not supported over the WAN link.

Microsoft Windows V3.1

It is recommended that the network protocol stack is loaded in EMS memory to ensure enough conventional memory is available to run Windows.

Programming Support

Application Programming Interfaces (APIs) are supported with the restriction that only TCP/IP and DECnet phase IV may be used as the transport protocol. The sending of broadcast and multicast messages over the WAN link is not supported.

Multilinguality

PATHWORKS WAN ACCESS is only available in English, but can run in conjunction with other countries versions of PATHWORKS V5 for DOS and Windows.

Other Supported Applications and Services

The following applications and services are fully supported:

- Print Screen Services
- Mail Services
- Date and Time Services
- Task-to-Task Communications
- DOS Version 5.0 Task Switcher API Support
- PC DECwindows Motif®
- Network File Operations
- Permit Services

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Not Supported

Not Supported over the WAN

The following applications and services are not supported over the WAN link:

- InfoServer 100 (CD-ROM Services)
- Broadcast and Receive
- Remote Boot Capability
- Maintenance Operations Protocol (MOP)
- LAT (Local Area Transport)
- LAST (Local Area Systems Transport)
- LAD (Local Area Disks)
- NETBEUI as WAN transport protocol
- NetWare® IPX as WAN transport protocol
- UDP as WAN transport protocol

Not Supported on the LAN

Installation of a router on the same LAN as PATHWORKS WAN ACCESS is not supported.

Network Interfaces

PATHWORKS WAN ACCESS uses two interface cards:

- A LAN card:
Ethernet or Token Ring card with an NDIS driver supported by PATHWORKS V5 (refer to the PATHWORKS V5 for DOS and Windows SPD/SSA 55.07.xx).
The Native Driver is also supported on the Ethernet card.
- A WAN card:
X.25 card or an autosynch X.32 modem supported by PATHWORKS X.25 (DOS/Windows) V5.0.
For more information refer to the System Support Addendum (SSA 51.57.00.x)

Installation and Configuration Utilities

PATHWORKS WAN ACCESS has a simple and straightforward installation that is fully integrated into the PATHWORKS V5 for DOS and Windows client installation. This allows the user to take advantage of preconfigured options (e.g. existing PATHWORKS servers) that minimizes the installation tasks.

PATHWORKS WAN ACCESS software is considered as an optional enhancement to the PATHWORKS X.25 (DOS/Windows) V5.0 software. PATHWORKS WAN ACCESS installation and configuration uses all the parameters and options defined during the joined installation with PATHWORKS X.25 (DOS/Windows) V5.0.

When using TCP/IP, the data packet length should be set to a maximum value of 512 bytes on each TCP/IP client communicating through the Connector Node. A utility program is supplied with PATHWORKS WAN ACCESS so that PATHWORKS V5 for DOS and Windows PC users are able to make this change quickly and easily. No specific configuration is required for the LAN clients when using DECnet.

Transport Protocol Support

PATHWORKS WAN ACCESS is designed to take advantage of the network transport protocol platform provided by other PATHWORKS WAN connectivity products such as PATHWORKS X.25 (DOS/Windows) V5.0.

It is therefore possible for the PATHWORKS WAN ACCESS clients to use either TCP/IP or DECnet Phase IV (or both) as the Wide Area Network transport protocol.

The Connector Node dynamically identifies the clients and assigns switched virtual circuits (SVCs) for them according to the transport protocol being used. For TCP/IP connections, the Connector Node uses one SVC for all PC links. For DECnet, it assigns one SVC per PC link.

The Time Cutting features of PATHWORKS X.25 (DOS/Windows) V5.0 work with PATHWORKS WAN ACCESS when directly accessing the X.25 network.

Data Link Management

The link management tools provided with PATHWORKS X.25 (DOS/windows) V5 are supported.

A dynamically maintained table of the PC LAN links carried over the WAN link is managed by the software and can be read under DOS for troubleshooting purposes.

License Management

The License Management Facility for each PATHWORKS V5 for DOS and Windows client located on the remote LAN is supported through non-broadcast message licensing.

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HARDWARE REQUIREMENTS

Systems, components, and peripherals as specified in the System Support Addendum (51.57.00-x). For more information contact your local Digital office.

SOFTWARE REQUIREMENTS

- PATHWORKS V5 for DOS and Windows media kit
- PATHWORKS X.25 (DOS/Windows) V5.0 media kit

Refer to the System Support Addendum (51.57.00-x) for availability and required versions of prerequisite/optional software. Detailed information may be found in the PATHWORKS X.25 (DOS/Windows) V5 product documentation.

ORDERING INFORMATION

Software Licensing

PATHWORKS WAN ACCESS is covered by a specific CNS license which provides the right to use the software on a single Connector Node.

Order for the Connector Node:

- PATHWORKS WAN ACCESS (DOS/Windows) V1.0 CNS License

QM-2N0AA-A1	Single license per PAK
QM-2N0AA-AA	Multiple licenses per PAK

Note

The Connector Node is not dedicated to PATHWORKS WAN ACCESS tasks and acts as a normal PATHWORKS client; it is necessary to acquire a PATHWORKS V5 for DOS and Windows client license mentioned below:

Order for each PATHWORKS V5 for DOS and Windows client located on the LAN, including the Connector Node, one of the following PATHWORKS V5 for DOS and Windows client licenses:

QM-0TLAA-AA (or -A1)	PATHWORKS V5 for DOS and Windows (LAN Manager) CCS License
QM-0EKAA-AA (or -A1)	PATHWORKS V5 for DOS and Windows (NetWare) CCS License
QM-2CNAA-AA (or -A1)	PATHWORKS V5 for DOS and Windows CNS License

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Media and Documentation Kits

Media and documenta- QA-2N0AA-HC RX23 high density, 3.5 inch diskettes
tion kit
Documentation kit only QA-2N0AA-GZ

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PATHWORKS X.25 (DOS), any version
PATHWORKS ISDN® (DOS), any version
PATHWORKS for DOS (NetWare® Coexistence), any version

Server Programs:

PATHWORKS V5.0 for OpenVMS
PATHWORKS for ULTRIX, V1.3
PATHWORKS V5.0 for DEC OSF/1® AXP
PATHWORKS for SCO™ UNIX®, V1.1

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PATHWORKS for ULTRIX, V1.3
PATHWORKS V5.0 for DEC OSF/1 AXP
PATHWORKS for SCO UNIX, V1.1

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Server Program:

PATHWORKS V1.0 for OpenVMS (NetWare)

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PATHWORKS V5.0 for OpenVMS
PATHWORKS for ULTRIX, V1.3
PATHWORKS V5.0 for DEC OSF/1 AXP
PATHWORKS for SCO UNIX, V1.1

B. License: PATHWORKS V1.0 (NetWare) FPA

When you purchase the above license you may use the following programs ("Software") under the terms in Section 2 and all terms provided in Additional Terms below.

Server Programs:

PATHWORKS V1.0 for OpenVMS (NetWare)

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Client Program:

PATHWORKS V5.0 for DOS and Windows
PATHWORKS X.25 (DOS), any version
PATHWORKS ISDN (DOS), any version
PATHWORKS for DOS (NetWare Coexistence), any version

B. License: PATHWORKS V4.1 for Windows NT CNS

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Client Program:

PATHWORKS V4.1 for Windows NT

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Client Program:

PATHWORKS WAN ACCESS (DOS/Windows) V1.0

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4. PATHWORKS FPS Licenses:

A. License: PATHWORKS V1.0 for OpenVMS (NetWare) FPS

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Server Program:

PATHWORKS V1.0 for OpenVMS (NetWare)

B. License: PATHWORKS V5.0 for OpenVMS (LAN Manager) FPS

When you purchase the above license you may use the following program ("Software") under the terms in Section 4 and all terms provided in Additional Terms below.

Server Program:

PATHWORKS V5.0 for OpenVMS

C. License: PATHWORKS V5.0 for DEC OSF/1 AXP (LAN Manager) FPS

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Server Program:

PATHWORKS V5.0 for DEC OSF/1 AXP

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System Support Addendum

**PRODUCT NAME: PATHWORKS WAN ACCESS
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The requirements listed in this document apply only to the PC where PATHWORKS WAN ACCESS (DOS/Windows) V1.0 will be installed - referred to as the Connector Node.

For requirements regarding the PATHWORKS clients located on the same LAN as the Connector Node, please see the PATHWORKS V5 for DOS and Windows SPD/SSA (55.07.xx)

HARDWARE REQUIREMENTS

Note

Since PATHWORKS WAN ACCESS (DOS/Windows) V1.0 is add-on software to PATHWORKS V5 for DOS and Windows and also to PATHWORKS X.25 (DOS/Windows) V5.0 software all requirements of the related products apply.

General Requirements

Refer to PATHWORKS V5 for DOS and Windows and PATHWORKS X.25 (DOS/Windows) for other general requirements.

Workstation Requirements

- 80386 and 80486 based PCs or higher
- 50 KB conventional memory
- 1 MB disk space.

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Wide Area Network Connection Requirements

PATHWORKS WAN ACCESS supports any of the WAN connectivity devices which are supported by PATHWORKS X.25 (DOS/Windows) V5.0. Please refer to the PATHWORKS X.25 (DOS/Windows) V5.0 product documentation for further information.

Supported WAN Connectivity Devices:

ISA/EISA/MCA X.25 PC Cards:

- DS206-AA: EICON Card PC (EIA) - ISA bus/68008 CPU/1 MB / up to 19.2 kbauds/V24 interface
- DS206-CA: 2-Port EICON Card HSI (EIA) - ISA bus/68000 CPU/ 2MB /up to 128 kbauds/V24/V35/X.21 interface
- DS216-AA: EICON Card MC (MCA) - MCA bus/68008 CPU/1MB / up to 19.2 kbauds/V24 interface
- DS216-BA: EICON Card HSI/MC (MCA) - MCA bus/68000 CPU/ 1 MB / up to 384 kbauds/V24/X35/V21 interface.

X.32 Network Access Devices :

PATHWORKS X.25 (DOS/Windows) V5 supports the following X.32 modems from Quaternaire Informatique (affiliated with Attachmate Corporation).

- MicroSPEEDY 32: an external pocket "autosync" modem to be connected to the serial port of your PC.
- POCKET 32: an external pocket synchronous modem (V32)
- TOP32: a PCMCIA 2.0 card "autosync" synchronous modem

For more Information contact your local Digital office.

Local Area Network Interface Cards

Support of Ethernet or Token Ring card with an NDIS driver that is supported by PATHWORKS V5 (refer to PATHWORKS V5 for DOS and Windows SPD/SSA 55.07.xx).

The native driver is also supported for the Ethernet card.

SOFTWARE REQUIREMENTS

- PATHWORKS V5 for DOS and Windows media kit
- PATHWORKS X.25 (DOS/Windows) V5.0 media kit

Since PATHWORKS WAN ACCESS (DOS/Windows) V1.0 is add-on software to PATHWORKS V5.0 for DOS and Windows and also to PATHWORKS X.25 (DOS/Windows) V5.0 software all requirements of the related products apply.

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General Requirements

Refer to PATHWORKS V5 for DOS and Windows client SSA for requirements regarding:

- Operating System and Microsoft Windows Support
- EMS Support
- Printer Support.

Server Support

Refer to PATHWORKS V5 for DOS and Windows Client SSA with the restrictions to PATHWORKS servers running either TCP/IP or DECnet.

Remote Boot Support

The Remote Boot functionality is not supported over the WAN link.

The above information is valid at time of release. Please contact your local Digital office for the most up-to-date information.

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