



Software Product Description

**PRODUCT NAME: ManageWORKS Workgroup Administrator
Version 2.2**

SPD 63.70.01

DESCRIPTION

Version 2.2 is the newest release of Digital's leadership PC LAN network and systems management solution: ManageWORKS Workgroup Administrator. ManageWORKS already offers multiple, heterogeneous network operating system management of up to 800 desktop and SNMP devices from a single Windows PC. (See Sales Update from Jan 95.)

ManageWORKS Workgroup Administrator now provides support for all of today's PC desktop platforms: Microsoft Windows, Windows for Workgroups, and now also Windows 95 and Windows NT (Intel and Digital's Alpha processor). Based on the minimum hardware configuration requirements of a 386/33 MHz PC with 8 MB of memory, it can still easily run on a laptop for mobile network troubleshooting.

ManageWORKS V2.2 allows the ability to combine NetView and ManageWORKS to provide enterprise managers consoles with ManageWORKS centralized management with distributed, local control. ManageWORKS can act as a "mid-level manager," forwarding network status, SNMP alarms, and events to an enterprise management platform, whether it is a Digital POLYCENTER Manager on NetView, IBM NetView, or HP OpenView console.

For users that want to run ManageWORKS on Windows or Windows for Workgroups but do not have a TCP/IP stack already installed, ManageWORKS now comes with an optional Real Mode TCP/IP stack ready for use during the installation or upgrade process. This is in addition to supporting the industry leading TCP/IP stacks from FTP, Novell, NetManage, and Digital's PATHWORKS product, as well as the native TCP/IP stacks that come with Microsoft Windows 95 and Windows NT.

ManageWORKS now provides integration for any DOS or Windows application, without the need for additional

coding through the Object Creator utility. Users can create and define manageable objects and execute actions upon those new objects.

Reporting capabilities allow users to produce a listing of all network elements discovered, as well as displaying potential problems in the network such as duplicate or unused TCP/IP addresses, devices that have dropped connections or been added to the network, or other changes to object parameters.

NEW FEATURES

The following new features are provided with this release of ManageWORKS:

- Runs on Windows NT and Windows 95 platforms, in addition to Windows Version 3.x and Windows for Workgroups Version 3.11.
- When combined with an enterprise-level manager such as POLYCENTER Manager on NetView, provides centralized management with distributed, local control. ManageWORKS can act as a mid-level manager, passing network status to enterprise management tools.
- Configured to forward SNMP traps to an enterprise management platform, for example, Digital POLYCENTER Manager on NetView, IBM NetView, or HP OpenView. The database and map are updated accordingly for end-to-end network management.
- Includes an optional TCP/IP communications stack, in addition to supporting the industry-leading TCP/IP stacks from Microsoft, FTP, Novell, NetManage, and Digital's PATHWORKS product.
- Provides tighter third-party application integration without the need for additional coding. While using ManageWORKS, you can interactively define manageable objects and then execute actions upon those new objects.

- Features basic reporting capabilities so that you can see a listing of all network elements discovered as well as listings of potential problems in the network, such as duplicate or unused TCP/IP addresses, devices that have been dropped or added to the network, devices with misconfigured netmasks, or other changes to the object profile parameters.
- With the ManageWORKS Software Developers Kit, provides the 32-bit components necessary to build or snap-in 32-bit applications into the ManageWORKS framework for Windows 95 and Windows NT (Intel or Alpha).
- With the SNMP Management OMM you can group network objects and select one or more groups for polling. You can assign polling parameters (poll interval, timeout, and retry values) on a group basis.
- Using the Database Management Utility, initializes and compresses various parts of the database. Database information can be exported to remote pollers to increase polling efficiency and reduce network traffic.
- Displays status colors for SNMP domain objects in addition to the individual objects contained in a domain. The color of a domain object reflects the most severe state of any contained object.
- Shows object status colors in hierarchical viewers as well as map viewers. Status colors can be displayed for any object whose status is made available to ManageWORKS.
- Using an icon, associates object type and subtype with its MIB-II system object identifier (sysObjectID variable in the MIB-II system group). Mapping sysObjectIDs to an object type assists the IP Auto Discovery to determine the type of a newly discovered device.
- Using an icon, associates any object type and subtype with its MIB-II system description (sysDescr variable in the MIB-II system group). Mapping sysDescrs to an object type assists the IP Auto Discovery to determine the type of a newly discovered device.

DIGITAL PRODUCTS THAT WORK WITH ManageWORKS

HUBwatch

HUBwatch is a Windows application that allows you to get and set parameters of an SNMP-compliant Digital hub product using a graphical interface that accurately represents the physical switches and indicators on the device itself.

The current version of HUBwatch is unsupported with ManageWORKS, but it can be used by upgrading the TCP/IP stack for HUBwatch as described in the ManageWORKS Release Notes.

PATHWORKS Workstation Manager

Workstation Manager is a management application provided with the PATHWORKS ManageWORKS component of PATHWORKS V5.1 and V6.0 for DOS and Windows. After following a few simple steps in the ManageWORKS documentation, you can use this application with ManageWORKS Workgroup Administrator. Workstation Manager lets you configure PATHWORKS for DOS and Windows clients remotely- through templates for profile registries of individual workstations or groups of workstations, including network transports, addresses, and applications.

ManageWORKS SDK

ManageWORKS SDK Version 2.2 provides the following features:

- Sample code and libraries for Win16 Intel, Win32 Intel, and Digital Win32 Alpha platforms
- The ManageWORKS framework runtime environment
- Application Programming Interfaces (APIs) that provide a consistent user interface across multiple transports and transport protocols for the creation of OMMs and samples
- Selected Dynamic Link Libraries (DLLs) for Microsoft Windows programming
- Sample OMMs in C and C++ including:
- PODWORKS, an OMM debugging utility
- Sample InstallSHIELD installation so that OMMs can be packaged and distributed to other users
- C++ support class libraries

THIRD-PARTY PRODUCTS THAT WORK WITH ManageWORKS

A list of the currently available third-party management applications that can be integrated with ManageWORKS Workgroup Administrator is available upon request from Digital or from an authorized Digital reseller.

MINIMUM HARDWARE REQUIREMENTS

The minimum hardware configurations required to run ManageWORKS are:

Platform	CPU Type	Memory	Management Support Capability
Windows	33-Mhz 80386	8 MB	Can support up to two TCP/IP domains with fewer than 50 end nodes or network devices total.
Windows for Workgroups	33-Mhz 80386	8 MB	Can support up to two TCP/IP domains with fewer than 50 end nodes or network devices total.
Windows NT (Intel)	66-Mhz 80486 DE21064 166 (or greater)	16 MB	Can support up to two TCP/IP domains with fewer than 50 end nodes or network devices total.
Windows NT (Alpha)	DECpc AXP 150 (or greater) 166 Mhz 21064 (or greater)	32 MB	Can support up to two TCP/IP domains with fewer than 50 end nodes or network devices total.
Windows 95	33-Mhz 80486	8 MB	Can support up to two TCP/IP domains with fewer than 50 end nodes or network devices total.

RECOMMENDED HARDWARE CONFIGURATION

The recommended hardware configurations to run ManageWORKS are:

Platform	CPU Type	Memory	Management Support Capability
Windows	66-Mhz 80486	16 MB	Can support up to six TCP/IP domains with up to 100 end nodes or network devices total.
Windows for Workgroups	66-Mhz 80486	16 MB	Can support up to six TCP/IP domains with up to 200 end nodes or network devices total.
Windows NT (Intel)	66-Mhz 80486 DE21064 166 (or greater)	16 MB	Can support up to two TCP/IP domains with fewer than 50 end nodes or network devices total.
Windows NT (Alpha)	DECpc AXP 150 (or greater) 166 Mhz 21064 (or greater)	32 MB	Can support up to two TCP/IP domains with fewer than 50 end nodes or network devices total.
Windows 95	66-Mhz 80486	16 MB	Can support up to six TCP/IP domains with up to 200 end nodes or network devices total.

You can support additional nodes by increasing the time interval allocated for SNMP polling of the network or by using a PC with more memory and processing power.

DISK SPACE REQUIREMENTS

To install the full ManageWORKS kit, you need a minimum of 40 MB of free disk space. This includes 2 MB of TEMP space required for the installation (TEMP space is where the environment variable TEMP is defined). Digital recommends 44 MB or more to allow room for database files. The following table specifies the disk space used by each component.

Component	Disk Space Required
ManageWORKS Runtime	6.0 MB
ManageWORKS Tutorial	3.8 MB
File System Management OMM	0.3 MB
LAN Manager Server Management OMM	0.8 MB
NetWare Server Management OMM	0.8 MB
SNMP Management OMM	25.0 MB
OLE Container OMM	0.1 MB
ManageWORKS TCP/IP (if used)	1.0 MB

SOFTWARE REQUIREMENTS

To run ManageWORKS, one of the following is required:

- Microsoft Windows, Version 3.1
- Windows for Workgroups, Version 3.11
- Windows NT, Version 3.51
- Windows 95

Additional software is required for the networks you want to manage:

- To manage LAN Manager, you need Windows for Workgroups configured with Microsoft Networks support, or Microsoft LAN Manager, Version 2.n, with the Enhanced Redirector.
- To manage NetWare, you need Novell NetWare, Version 2.n or 3.n.
- For SNMP-based network management, you need one of the following TCP/IP products:
 - Digital PATHWORKS TCP/IP (PATHWORKS for DOS and Windows, Version 5.1 or higher)
 - Microsoft TCP/IP for Windows NT Version 3.51
 - Microsoft TCP/IP for Windows 95
 - FTP Software PC/TCP Network Software, Version 3.0
 - NetManage ChameleonNFS, Version 4.01 or Version 4.5
 - Novell LAN WorkPlace for DOS, Version 4.2

- ManageWORKS TCP/IP, Version 2.2, provided in the ManageWORKS Workgroup Administrator kit. This stack is a Real Mode stack. It will not operate in Enhanced Mode. The network device driver must be a Real Mode NDIS2 driver only. This stack may not operate properly with mixed mode (Real Mode and Enhanced Mode) drivers. This stack requires retail NetWare or retail Lan-Manager for network drivers.

Microsoft Windows for Workgroups, Version 3.11 TCP/IP, and Sun PC NFS TCP/IP do not support TCP/IP raw socket calls, and there is no workaround to make them function. Therefore, these TCP/IP products do not work correctly with ManageWORKS.

MEMORY REQUIREMENTS

ManageWORKS requires varying amounts of conventional memory, depending on the components you have loaded and your particular PC configuration. For simultaneous LAN Manager, NetWare, and SNMP management, ManageWORKS requires approximately 535 KB of free conventional memory before Windows is started. Less memory is required if you are not managing all three environments.

DISTRIBUTION MEDIA

The media for this product is available only on CD-ROM and can be obtained by ordering the ManageWORKS Version 2.2 product, which includes the license, CD-ROM, and hardcopy documentation. The media and documentation are not available separately from the full product kit with license.

The documentation includes instructions on how to create a diskette kit from the CD-ROM, if you need to install the product on a PC that does not have a CD-ROM drive.

ORDERING INFORMATION

The right to use this release of ManageWORKS Workgroup Administrator is included with the registration of ownership of ManageWORKS Workgroup Administrator V2.2. Updated kits will be sent automatically to all registered owners.

The ManageWORKS products are sold as PC-style, shrink-wrapped products, which include the license, software media (CD-ROM), and documentation in a single package. One license is required for each console.

Model Number	Description
QB-3MU9A-SA	CD-ROM License Package, includes ManageWORKS Workgroup Administrator for Windows.
QB-3MV9A-SA	Software Developer's Kit CD-ROM License Package (shrink-wrapped product includes PC style license, CD-ROM media, and documentation).
QB-3RF9A-SA	PATHWORKS V5.0 ManageWORKS upgrade to ManageWORKS Workgroup Administrator for Windows.

LOCAL LANGUAGE VERSIONS

Local language versions of ManageWORKS Workgroup Administrator is now available worldwide in the following languages: German, French, Swedish, Czech, Russian, Italian, Spanish, and Portuguese (Brazilian dialect). All language versions of the software and PostScript printable versions of the documentation are provided on the ManageWORKS CD-ROM. Hardcopy versions of the localized documentation are available by ordering the respective QB- product model numbers.

SOFTWARE PRODUCT SERVICES

A variety of services are available directly from Digital or from an authorized Digital reseller. For more information, contact your local Digital office or Digital reseller.

SOFTWARE WARRANTY

Warranty for this software product is provided by Digital with the purchase of a license for the product as defined in the Software License Agreement.

The above information is valid at time of release. Please contact your local Digital office for the most up-to-date information on Version 2.2.

FEEDBACK

To submit suggestions about the ManageWORKS products and related programs and services, send Internet mail to manageworks@digital.com, or on the world wide web, to <http://www.digital.com/info/nis>.

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