IBM Nways Workgroup Manager for Windows NT IBM Nways Workgroup Remote Monitor for Windows

Nways to build your network. One way to manage it–proactively!

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Highlights

- Operates on Windows® NT® Version 4.0
- Reduces network ownership cost and improves network availability
- Provides easy-to-use, graphical management of networks
- Provides comprehensive device management through that same easy-to-use graphical user interface
- Provides Web-based management using Java technology
- Provides remote monitoring of your network's performance, through the use of RMON- and RMON2-compliant agents
- Provides virtual LAN configuration management
- Provides management of ATM switches
- Provides seamless integration

1 Managing your network doesn't have to be difficult

Take a look at the Nways™ Workgroup products

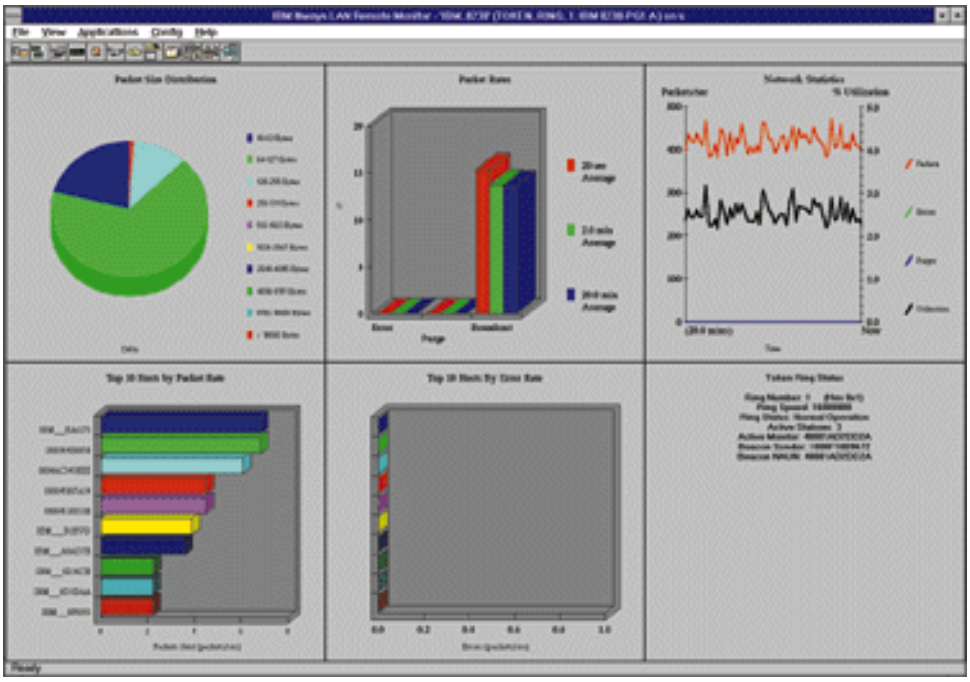
Nways Workgroup Manager provides an SNMP management platform and a suite of graphical device management applications that bring integrated, heterogeneous SNMP management to the Windows NT 4.0 environment. It provides fault, performance, configuration, accounting and security management for SNMP-enabled workstations, hubs, routers, bridges and switches.

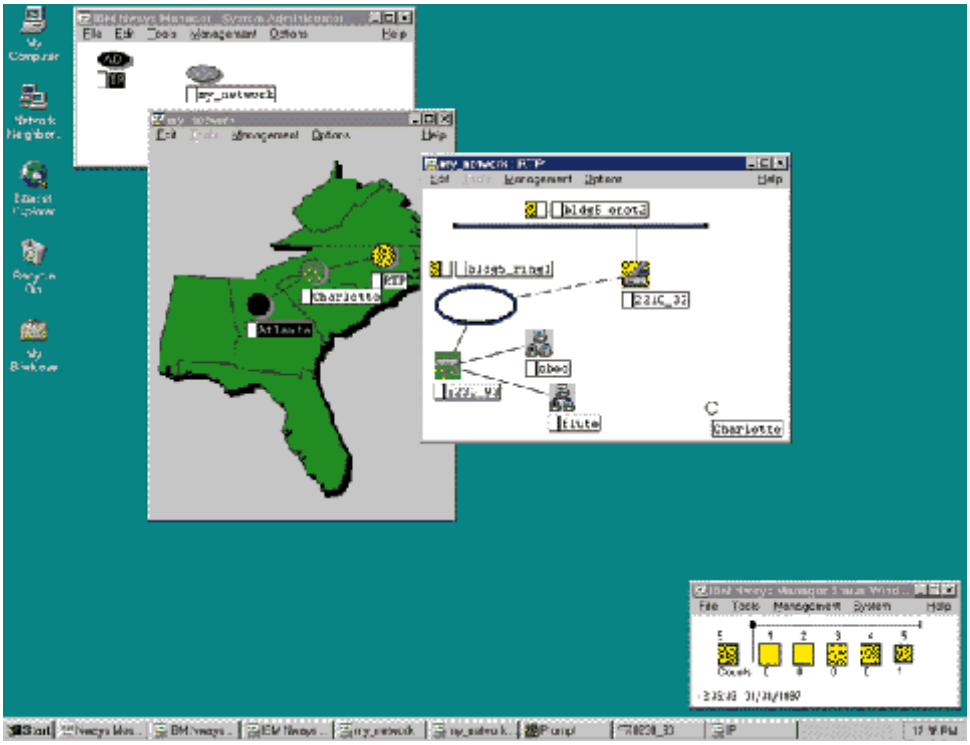
System down time is minimized by using the easy-to-use graphical network and device displays for rapid problem-source identification and resolution. You can prevent problems such as network congestion by setting thresholds and collecting data that helps you make adjustments to keep the network humming.
Because IBM embeds RMON agents in its networking devices, if you also have Nways Workgroup Remote Monitor (ReMon) running then Nways Workgroup Manager has the ability to access the Nways Workgroup ReMon information (RMON coupling).

Nways Workgroup ReMon is a remote monitoring (RMON) application that collects, monitors, analyzes and displays network statistics from RMON and RMON2 agents. Nways Workgroup ReMon supports all the RMON MIB groups (RFC 1757 and RFC 1513 extension for Token Ring) and IBM's RMON2 implementation, which is based on the Enterprise Communications Analysis Module (ECAM).

Nways Workgroup ReMon's support of RMON2 (ECAM) lets you go beyond the current RMON standards to full seven-layer data collection, including segment, host and conversation statistics, for the major protocols and application types. With this information you can tune your network.

When you purchase both Nways Workgroup Manager and Nways Workgroup ReMon, you will have the added bonus of RMON coupling for the 8225, 8230, 8238, 8250 and 8260 hub and concentrator devices. RMON coupling allows the graphical management applications for these devices to







seamlessly access and display the RMON and RMON2 data provided for these devices by Nways Workgroup ReMon.

Operates on Windows NT Version 4.0
The Nways Workgroup Manager is a true 32-bit native Windows NT application that operates on Windows NT Version 4.0. Nways Workgroup ReMon operates on both Windows Version 3.1 or higher and Windows NT Version 4.0.

Reduces network ownership cost and improves network availability
Nways Workgroup Manager provides graphical device-management applications that lower network operating costs. The Nways Workgroup Manager applications have a common look and feel, so your network operator training is reduced and your personnel are more productive. These management applications enable you to find and resolve problems quickly, reducing network outages. With Nways Workgroup Manager your operators configure and manage the network and network devices remotely from a single network management workstation, reducing the number of operators and the amount of travel.

Nways Workgroup ReMon provides RMON support, which reduces network operation and administration costs by making users more productive and by identifying network problems before they occur. Cost-savings and staff productivity go up as the number of RMON-managed LAN segments increases.

Performance information available from both Nways Workgroup Manager and Nways Workgroup ReMon facilitates performance refinements and network-tuning, helping you to optimize your network.

Provides easy-to-use graphical management of networks
Nways Workgroup Manager lets you take control of your IP networks. The graphical user interface gives you topology views of your network and realistic views of your network resources, with color-coded status of resources and overall status of each network. The easily recognizable color-coded icons on the network views display the information your network operator needs to manage your network and networking devices proactively.

Key network features of the Nways Workgroup Manager include:

- Automatic Internet network discovery
- Real-time, graphical views of network topology
- Ability to browse, update and compile MIBs
- Color-coded and aggregated network and device real-time status
- Trouble-ticketing
- Trap management, including specifying trap severities
- Trap compiler

- Polling configuration and notification
- Performance threshold configuration and notification
- Inventory management
- Collection and presentation of real-time and historical statistics

To provide security you identify the level of access controls that you need. The management applications then use the security features inherent in the SNMP management platform to control access to networking devices.

Provides comprehensive device management
The graphical user interface of the device-management applications gives you real-time views of your network devices, with color-coded status of components and overall status of the device. The Nways Workgroup Manager device-management applications provide a complete set of messages, traps and event notifications for devices in the network. In addition the device-management applications support "hot spots" for point-and-click problem determination and action (for example, click on a port and status information and clickable actions are displayed immediately).

Key features of the Nways Workgroup Manager device-management applications are the ability for you to:

- View or change device, module or port configurations
- Display statistics at a device, module or port level
- Select a specific component via point-and-click with a mouse
- Receive real-time, color-coded status at a glance
- Define and monitor performance thresholds
- Define and monitor real-time and historical statistics
- Monitor real-time events
- Download microcode
- Telnet and FTP to a device

Nways Workgroup Manager supports the following devices:

- IBM 8210 Nways Multiprotocol Switched Services (MSS) Server
- IBM 8224 Ethernet Stackable Hub
- IBM 8225 Fast Ethernet Stackable Hub
- IBM 8230 Token-Ring Controlled Access Unit
- IBM 8235 Dial-In Access to LANs (DIALs) Server, including IBM 8235 Dial-In Access to LANs (DIALs) Switch Model I40
- IBM 8238 Token-Ring Stackable Hub
- IBM 8250 Multiprotocol Intelligent Hub
- IBM 8260 Nways Multiprotocol Switching Hub
- IBM 8271 EtherStreamer®/Nways Ethernet LAN Switch
- IBM 8272 LANStreamer®/Nways Token-Ring LAN Switch
- IBM 8273 Nways Ethernet RouteSwitch (requires IBM Nways RouteSwitch Network Manager, sold separately)
- IBM 8274 Nways LAN RouteSwitch (requires IBM Nways RouteSwitch Network Manager, sold separately)
- IBM 8281 Nways ATM LAN Bridge
- IBM 8282 Nways ATM Workgroup Concentrator
- IBM 8285 Nways ATM Workgroup Switch
- IBM 2210 Nways Multiprotocol Router
- IBM 6611 Network Processor

Provides Web-based management using Java technology
Nways Workgroup Manager includes Web-based management using Java technology for:

- IBM 8210 Nways Multiprotocol Switched Services (MSS) Server
- IBM 8273 Nways Ethernet RouteSwitch
- Generic Java-based management for any device in your network

Provides remote monitoring of your network's performance, through RMON and RMON2 support

RMON and remote RMON2 are standards from the Internet Engineering Task Force (IETF) that advance the state-of-the-art in open network performance management and fault diagnosis. RMON defines a standard set of MAC-layer statistics and the ability to filter and capture data packets for analysis. RMON2 (RFCs 2021 and 2074) provides additional statistical information at the network and application layers of the protocol stack. IBM's RMON2 support is based on the ECAM that will be migrated to RMON2.

Nways Workgroup ReMon provides not only the RMON functions but also takes advantage of the ECAM capabilities (RMON2) to provide address translation and protocol distribution within your network. Address translation translates MAC addresses to network-layer addresses. Protocol distribution allows you to view the protocols and applications being used on the network.

Use Nways Workgroup ReMon to proactively manage your network performance. It enables you to perform key functions such as:

- Watching for emerging problems and short-term trends
- Checking network performance and utilization
- Setting network service objectives
- Planning short-term and long-range network capacity
- Determining the busiest stations in your network
- Troubleshooting network problems and outages
- Capturing and analyzing network traffic based on definable filter criteria
- Analyzing network-traffic trends, including protocol distribution
- Associating MAC-layer addresses to network-layer addresses
- Configuring RMON and RMON2 agents

Nways Workgroup ReMon provides support for these RMON-enabled products:

- IBM 8225 Fast Ethernet Stackable Hub
- IBM 8230 Token-Ring Controlled Access Unit
- IBM 8238 Token-Ring Stackable Hub
- IBM 8250 Advanced Token-Ring Management Module
- IBM 8260 Token-Ring Media Access Daughter Card
- IBM 8260 Ethernet Media Access Daughter Card
- Other RMON-compliant probes

Nways Workgroup ReMon provides support for these RMON- and RMON2-enabled products:

- IBM 8250 Ethernet RMON Probe
- IBM 8260 High-End Token-Ring Media Access Daughter Card
- IBM 8260 High-End Ethernet Media Access Daughter Card
- Other RMON2 probes that implement the ECAM

Provides virtual LAN configuration management

A virtual LAN (VLAN) is a subnetwork defined by software instead of physical wiring. VLANs enable networks to support the needs of workgroups, which improves worker productivity and network security and, ultimately, cuts network administration costs.

The IBM 8271 Nways Ethernet LAN Switch and IBM 8272 Nways Token-Ring LAN Switch have VLAN capability built in. You can set up a VLAN remotely, using the drag-and-drop feature of Nways Workgroup Manager, without having to go to the wiring closet.

Provides management of ATM switches
Both the IBM 8285 Nways ATM Workgroup Switch and the IBM 8260 Nways Multiprotocol Switching Hub provide ATM switch/control points. The Nways Workgroup Manager provides management of:

- The ATM switch/control point
- The ATM modules in the 8285 or 8260
- The ATM interfaces (ports) in the ATM modules, including displaying information about the attached and registered ATM devices
- The permanent virtual circuits (PVCs)
- The switched virtual circuits (SVCs)

Provides seamless integration
Nways Workgroup Manager and Nways Workgroup ReMon management applications work together seamlessly, helping you configure and manage your network, and detect and resolve potential network problems before they occur.

IBM Nways Workgroup family for Windows at a glance

Hardware requirements	• Pentium processor at a minimum of 133 MHz
	• SVGA high-resolution (1024 x 768) display device
	• Memory requirements:
	  – Nways Workgroup Manager: 64 MB or more of RAM
	  – Nways Workgroup ReMon: 32 MB of RAM
	• Free disk space (in addition to that required by the operating system):
	  – Nways Workgroup Manager:
	  * 100 MB of free hard disk space for application files (more disk space is required for large networks or for monitoring many historical statistics).
	  * 150 MB of disk space for virtual memory paging files.
	  – Nways Workgroup ReMon:
	  * 50 MB of free hard disk space (more disk space will be required for RMON data captures and reports).
	  * 100 MB of disk space for virtual memory paging files.
	• Network interface card supported by TCP/IP
	• CD-ROM drive
	• Mouse

Software requirements	• Nways Workgroup Manager:
	  – Microsoft Windows NT V 4.0 for Intel486™ or greater processors, with TCP/IP support installed
	  – IBM Nways RouteSwitch Network Manager program if you intend to manage the IBM 8274 Nways LAN RouteSwitch.
	• Nways Workgroup ReMon: Microsoft Windows V 3.1 or higher, or Windows NT V 4.0 for Intel486 or greater processors, with TCP/IP support installed

For more information

To find out more about the IBM Nways Workgroup products and other high-performance IBM communications and networking products, contact your IBM representative or call IBM Direct at 1 800 IBM-CALL (1 800 426-2255). You can also access the IBM Networking Home Page at `http://www.networking.ibm.com` and the Nways Workgroup Manager for NT `FrequentlyAskedQuestions` and `What'sHot!` pages.

Copies of this and other related product specification sheets can be obtained from the IBM FAX Information Service by dialing 1 800 IBM-4-FAX (1 800 426-4329) in the U.S. or Canada or by dialing (415) 855-4329 outside the U.S. and Canada and requesting any of the following document numbers:

- 7267: *IBM Nways Workgroup Manager for Windows NT and IBM Nways Workgroup Remote*

Monitor for Windows

- 6513: *IBM Nways Manager for Windows*
- 7216: *IBM Nways Campus Managers for HP-UX*
- 6655: *IBM Nways Campus Manager ReMon for AIX*
- 6667: *IBM Nways Campus Manager LAN for AIX*
- 6665: *IBM Nways Campus Manager ATM for AIX*
- 7265: *IBM Proactive Management Solutions for the Campus and Wide Area Network*
- 7266: *IBM Nways Campus Manager Suite for HP-UX*

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