IBM Nways Management Solutions for Campus and Enterprise Networks Fact Sheet

Proactive management solutions for campus and wide-area networks

11 March 1997

Announcement Summary

Networks are key to your business. Remote offices are connected to corporate networks; corporate and government networks are interconnected with customer, supplier and business-partner networks; and the Internet is pervasive.

Geographic constraints are disappearing as technology enables us to form virtual organizations and workgroups. Maintaining connections, eliminating bottlenecks and keeping up with ongoing moves and changes in today's networks is a complex, expensive and labor-intensive problem. The cost of owning and operating a network far exceeds the network capital investment. With the right network management tools, you can reduce network operations and administration expenses and save time.

In this announcement IBM includes new releases of the existing Nways™ Enterprise Manager, Nways Campus Manager LAN, ATM and Remote Monitor for HP-UX, and Nways RouteSwitch Network Management Suite.

IBM also announces new management products for the workgroup: Nways Workgroup Manager for Windows® NT® and Nways Workgroup Remote Monitor for Windows.

New management applications are also being announced as part of the Nways RouteSwitch Network Management Suite in support of the IBM 8273 and IBM 8274 LAN switches. They are the IBM Nways RouteMonitor Manager and the IBM Nways RouteDirector Manager.

New releases of a management application for the Enterprise, Nways Wide Area Element Manager for HP OpenView for Solaris, are also included in this announcement.

IBM states its intent to provide Web-based management applications in the future based on state-of-the-art Java technology.

Announcement Highlights

Management solutions for campus networks

- *Nways Campus Managers*
  - Comprehensive device management through an easy-to-use graphical user interface
  - Support for large networks, including APPN® and Data Link Switching (DLSw)
  - Remote monitoring of your network's performance, through RMON and RMON2 support
  - Comprehensive management for ATM networks, including support for non-IBM devices that use ATM Forum-compliant MIBs
  - Management of switched virtual networks, including ATM Forum-compliant emulated LANs
  - Seamless integration between the various Nways Campus management applications to provide a comprehensive network management solution

Management solutions for the workgroup

- *Nways Workgroup Manager and Remote Monitor*
  - Operates on Microsoft® Windows NT V 4.0. Nways Workgroup Remote Monitor also operates on Windows 3.1 or higher.
  - A cost-effective, ready-to-run, comprehensive network management application for the workgroup.
  - Full RMON support provides remote monitoring of your campus network's performance through the use of RMON and RMON2 agents.

Management solutions for the IBM 8273 Nways Ethernet RouteSwitch and IBM 8274 Nways LAN RouteSwitch

- *Nways RouteSwitch Network Management Suite*
  - Enhanced network and virtual LAN (VLAN) management support for the new high-speed RouteCell switching modules for the 8274 RouteSwitch
  - A new management application used to gather statistics and events from a single RouteSwitch or multiple RouteSwitches in the network
  - A new, network-wide configuration and management tool specifically designed to manage the RouteCell product line

Management solutions for enterprise networks

- *Nways Enterprise Manager*
  - Management of larger, more complex networks made up of the IBM 2220 family of WAN switches
  - Added support for Euro-ISDN and Q.SIG management
  - Improved security with the audit log function
  - Addition of ISDN performance-monitoring and data collection
- *Nways Wide Area Element Manager*
  - Support for the new hardware features on the IBM Nways 2219, 2225 and 2230 wide area switches
  - New functions that increase network management flexibility and reliability

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Management solutions for campus networks

Nways Campus Manager LAN, ATM, Remote Monitor and Suite for HP-UX Version 2.1

Technical details

- *Nways Campus Manager LAN for HP-UX Version 2.1*
  Nways Campus Manager LAN provides an easy-to-use, cost-effective, comprehensive network management solution for customers with IBM networking devices in medium-to-large Ethernet, FDDI and Token-Ring networks, and router management, including VLANs. It also supports APPN networks and DLSw networks.
  Nways Campus Manager LAN:
  - Gives topology views of your network and realistic views of your network resources, with color-coding for resource status and overall status of each network.

  - Uses the distributed polling capabilities of TME® 10™ Mid-Level Manager (MLM) to distribute the discovery and polling functions to a set of network management stations rather than having one station poll a large group of devices. This reduces management loads on the networks and on the management workstations.
  - Assists with the initial network topology and updates the topology map whenever it discovers a network or configuration change.
  - Provides extensive support for problem management including trap management, polling intervals, threshold notification and graphical monitoring of the network and network devices.
  - Provides security by allowing you to define levels of access to your network devices.

- *Nways Campus Manager ATM for HP-UX Version 2.1*
  Nways Campus Manager ATM provides easy-to-use, efficient management of ATM networks, including VLANs formed from emulated LANs (ELANs), and manages ATM devices, including non-IBM devices, that use ATM Forum-compliant MIBs.
  Nways Campus Manager ATM lets you tune the auto-discovery capability to:
  - Discover particular SNMP agents, such as non-IBM ATM device types
  - Set the discovery interval to optimize polling
  - Filter discovery based on criteria such as IP address or device type.

  It also provides a connections-tracking function that lets you display any virtual connection between two endpoints in the ATM network for true end-to-end management capability.
- *Nways Campus Manager Remote Monitor for HP-UX Version 2.1*
  Nways Campus Manager Remote Monitor, in conjunction with RMON and RMON2 agents, provides money-saving remote analysis of Token-Ring and Ethernet LANs. IBM's current RMON2 implementation is based on Enterprise Communications Analysis Module (ECAM). It also provides:
  - Address translation of MAC addresses to network-layer addresses
  - A view of the protocols and applications being used in your network.
- *Nways Campus Manager Remote Monitor Advanced for HP-UX Version 2.1*
  Nways Campus Manager Remote Monitor Advanced contains all the functions of Nways Campus Manager Remote Monitor, and adds the ability to view communication patterns across the network at network layers, allowing you to tune your network and identify problems between networks. To help you remotely analyze your network it also:
  - Provides the ability to do protocol matrix analysis of Layer-3 or higher protocols, providing information about who is talking to whom in the network and what protocols they are using.
  - Transmits captured packets to specific segments, rings or other LAN analysis tools, such as IBM DatagLANce™ Network Analyzer, for stress-testing or network simulation.
- *Nways Campus Manager Suite for HP-UX Version 2.1*
  Nways Campus Manager Suite contains the functions of Nways Campus Manager LAN, Nways Campus Manager ATM and Nways Campus Manager Remote Monitor Advanced. You can save money by buying the Nways Campus Manager Suite, rather than purchasing separate products, to perform all the functions the suite offers.
  All products require HP OpenView Version 4.11 and HP-UX Version 10.2, and all are available on 4-mm tape or on CD-ROM.

Benefits
Nways Campus Manager HP-UX products

- Reduce network ownership cost and improve network availability.

- Provide easy-to-use graphical management of networks.
- Provide comprehensive device management.
- Support large router networks, including APPN and DLSw.
- Provide remote monitoring of your networks' performance.
- Provide comprehensive management of ATM networks.
- Manage switched virtual networks, including ATM Forum-compliant ELANs.
- Provide seamless integration of the management applications.

Positioning
Nways Campus Manager HP-UX products

- Provide configuration and operation of heterogeneous campus-wide networks.
- Are part of the high-end range of campus network management applications for the open platform HP OpenView for HP-UX.
- Manage networking devices with SNMP agents.
- Provide graphical device-management of IBM hardware and generic device-management of non-IBM hardware that supports the standard MIBs for AToMMIB or LANE.
- Nways Campus Manager Suite for HP-UX saves money and simplifies installation and operations for customers who need more than one of the Nways Campus Managers for LAN, ATM or Remote Monitor.
- Nways Campus Manager LAN for HP-UX provides an easy-to-use, cost-effective, comprehensive network management solution for customers with IBM networking devices in medium to large Token-Ring, Ethernet or FDDI networks.
- Nways Campus Manager ATM for HP-UX provides comprehensive, graphical management of ATM networks, including management of virtual networks formed from ELANs.
- Nways Campus Manager Remote Monitor for HP-UX, in conjunction with RMON device agents, provides money-saving remote analysis. The Nways Campus Manager Remote Monitor Advanced for HP-UX adds the ability to view communication patterns across the network at all network layers, allowing customers to tune their networks and identify problems between networks.

New traffic-monitoring application for AIX® and enhanced device support on AIX

Product previews

IBM Nways Traffic Monitor for AIX

The newest member of the Nways network management products, the Nways Traffic Monitor, will allow you to take network monitoring to the next level: the application level. Utilizing the information provided by RMON and RMON2 probes, Nways Traffic Monitor will provide the ability to graphically display and manage end-to-end connection traffic in your network. IBM's current RMON2 implementation is based on ECAM.

The following IBM networking devices provide RMON probes:

- 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

The following IBM networking devices provide RMON2 (including RMON) probes:

- IBM 8250 Ethernet RMON Probe
- IBM 8260 High-End Token-Ring Media Access Daughter Card
- IBM 8260 High-End Ethernet Media Access Daughter Card

IBM Nways Campus Manager LAN and ATM for AIX

New support is provided for the following devices:

- IBM 8260 DMM 4.1.2
- ATM module with 12 ports running at 25 Mbps and 1 port running at 155 Mbps
- ATM WAN 2-port E3/T3 module
- IBM 8210 MSS Server R 1.1
- ATM CP switch module V 3.0 and V 3.1
- IBM 8260 Switching Modules
- Token-Ring High-End MAC Monitor card with embedded RMON probe
- IBM 8271 and 8272 integrated modules for the IBM 8260
- Coupling of LAN and Remote Monitor for new devices supporting RMON agents
- IBM 8273 and 8274 launch of IBM Nways RouteSwitch Network Manager

ATM-specific device support includes: Web access for ATM topology and configuration, PNNI step-one topology support, IBM 2216, 8271 and 8272 ATM uplinks, IBM 8260 ATM 622-Mbps module, Video Distribution Module (VDM) and the Metropolitan Area Network (MAN) module.

APPN and DLSw support includes:

- MIB support for RFC 2024: Definition of Managed Objects for Data Link Switching using SMIv2
- Branch Extender support in APPN topology applications
- IBM 2216 V 1 and V 1.5 support
- IBM 2210 V 2 support

You get all of the following Nways management applications on a single CD-ROM when you order any one of them:

- Nways Campus Manager LAN for AIX V 3.2
- Nways Campus Manager ATM for AIX V 2.2
- Nways Campus Manager Remote Monitor Advance for AIX V 2.1
- Nways Traffic Monitor for AIX V 1.1

Management solutions for the workgroup

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

Technical details

- *Nways Workgroup Manager for Windows NT*
  The new Nways Workgroup Manager provides to small-to-medium size networks a cost-effective, ready-to-run network management application that runs on Windows NT Version

4.0. It supports all network management functions including configuration management, performance management, fault management, security management and accounting management.
Key features of the Nways Workgroup Manager include:

  - Automatic IP 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
  - Threshold configuration and notification
  - Inventory management
  - Collection and presentation of real-time and historical statistics
  - Telnet and FTP capabilities
  - Access control based on user identification

  Nways Workgroup Manager also provides graphical device-management applications for IBM's routers, LAN switches, remote access and hubs. For a specific list of the supported devices, refer to *Nways Workgroup Manager and Nways Workgroup Remote Monitor* specification sheet, order number G224-4527.
- *Nways Workgroup Remote Monitor for Windows*
  Use Nways Workgroup Remote Monitor to proactively manage your network, including:

  - 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
  - Trouble-shooting 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 Remote Monitor supports the IBM RMON- and RMON2-enabled products. IBM's current RMON2 implementation is based on ECAM. For details, refer to *Nways Workgroup Manager and Nways Workgroup Remote Monitor* specification sheet, order number G224-4527.
  As an added bonus, purchasing both the Nways Workgroup Manager and Nways Workgroup Remote Monitor will provide you with RMON coupling for the 8225, 8230, 8238, 8250 and 8260 hub and concentrator devices. RMON coupling allows the Nways Workgroup Manager graphical management applications for these devices to seamlessly access and display the devices' RMON and RMON2 data, which is supplied by Nways Workgroup Remote Monitor.

Benefits
The Nways Workgroup Manager and Remote Monitor provide a cost-effective, comprehensive network management solution for growing businesses that need:

- Automated network management for the first time
- Small businesses that need comprehensive, easy-to-use management solutions
- Medium-to-large businesses with large networks divided into smaller subnetworks

Positioning
Nways Workgroup Manager and Remote Monitor are members of the IBM Nways family of network management programs, which provide the ability to manage heterogeneous networks including Token-Ring, Ethernet, FDDI and ATM.

These are the recommended network management products for customers with small networks or large networks divided into autonomous workgroups, who want centralized management of their Internet devices on a single Windows NT-based management platform.

Both Nways Workgroup Manager and Nways Workgroup Remote Monitor are ready-to-run applications, requiring only the following software to operate:

- Windows NT V 4.0 for Nways Workgroup Manager
- Either Windows NT V 4.0 or Windows 3.11 or higher for Nways Workgroup Remote Monitor.

Nways Workgroup Manager and Remote Monitor are upgrade products for the IBM Nways Manager for Windows Version 1 and Version 2, and IBM Nways Remote Monitor for Windows Version 1. There will be no future enhancements to Nways Manager for Windows and Nways Remote Monitor for Windows.

Management solutions for the 8273 and 8274 Nways RouteSwitches

Nways RouteSwitch Network Management Suite Version 3.0

Technical details

- *Nways RouteSwitch Network Manager Version 3.0*
  IBM Nways RouteSwitch Network Manager, which provides configuration, monitoring and diagnostic information for your entire RouteSwitch network, now supports the new, high-speed RouteCell switching modules for the IBM 8274 Nways LAN RouteSwitch.
  Nways RouteSwitch Network Manager runs on HP OpenView for Windows, HP OpenView for UNIX® and IBM NetView® for AIX.
- *Nways RouteTracker Manager Version 3.0*
  This release of IBM Nways RouteTracker Manager adds the ability to create and manage networks containing the new RouteCell switching modules.
  Nways RouteTracker Manager runs on HP OpenView for Windows, HP OpenView for UNIX and IBM NetView for AIX.
- *Nways RouteMonitor Manager Version 3.0*
  The new IBM Nways RouteMonitor Manager provides the network administrator with the ability to gather statistics and events from any individual RouteSwitch or any number of switches in the network.
  Nways RouteMonitor Manager runs on HP OpenView for Windows.
- *Nways RouteDirector Manager Version 3.0*
  The new IBM Nways RouteDirector Manager is a network configuration and management tool specifically designed to manage the new RouteCell switching modules.
  Nways RouteDirector Manager runs on HP OpenView for Windows.

Benefits
Enables administrators to manage physical topology as well as logical networks (closed user groups and virtual private networks).

Positioning
Provides a comprehensive network management solution for IBM's 8273 and 8274 Nways RouteSwitches.

Management solutions for enterprise networks

Nways Enterprise Manager Release 2

Technical details

Nways Enterprise Manager manages, on the same management station, a network of switches, routers and controllers. This release of Nways Enterprise Manager adds the following features:

- Management of 2220 networks containing up to 200 medium-size nodes
- Addition of Euro-ISDN and Q.SIG management, and online configuration of ISDN D-channels
- Improved security
- Creation of an audit log of all user operations performed and their results
- User-customized shell scripts for logging event information
- Performance-monitoring on ISDN D-channels
- Data collection of ISDN and Q.SIG line usage

Benefits

- Provides management of Q.SIG/ISDN resources.
- Enhances the security features by adding the audit log.
- Allows customers with large networks to manage their networks with one Nways Enterprise Manager station.

Positioning

Nways Enterprise Manager provides graphical management for networks of IBM 2220 switches, routers and IBM 3746 controllers. This solution handles SNMP management of networks comprising routers, bridges and controllers. It also handles IBM 2220 Nways BroadBand Switches with ATM applications. Nways Enterprise Manager runs on TME 10 NetView or TMN/6000, and can run concurrently with other management programs.

Nways Wide Area Element Manager Release 2

Technical details

From a single, easy-to-use graphical interface, you can configure, manage faults and monitor the performance of IBM 2219, 2225 and 2230 Nways Wide Area Switches. Two new releases enhance the functionality:

- Nways Wide Area Element Manager for HP OpenView for Solaris 2.3
- Nways Wide Area Element Manager for HP OpenView for Solaris 2.4

Release 2.3 provides the following new features:

- Support for new hardware features and microcode levels on the 2219, 2225 and 2230
- Network management integration for networks of 2219, 2225 and 2230s into a single network management domain
- Support of a secondary network management gateway switch for increased reliability of the network management path
- A replication server function that allows close to real-time replication on a backup database server of all changes to the primary Nways Wide Area Element Manager database
- Support for in-band and out-of-band communications

Release 2.4 adds support for additional 2225 and 2230 hardware features as well as a new microcode level for the 2230.

Benefits

- Simplifies configuration with an easy-to-use, drag-and-drop graphical user interface.
- Provides real-time network status through its graphical display of the network topology.
- Ensures consistency and control over the network by keeping configuration data and a backup of the data in one database.
- Uses the open and widely accepted SNMP to communicate with network devices.
- Supports both in-band (over a LAN) or out-of-band (over a serial line) network connections.

Positioning
The Nways Wide Area Element Manager is a network management application that is required for configuring the IBM Nways 2219, 2225 and 2230 wide area network switches. It also provides fault management and performance-monitoring of these switches.

Table 1. Part Numbers, Prices, Availability

Item	Part Number / Machine Type	Model / Feature	Price (US $)	Availability
Nways Wide Area Element Manager for HP OpenView for Solaris 2.3	5765-C20	–	$4,000	5/97
Nways Wide Area Element Manager for HP OpenView for Solaris 2.4	5765-C20	–	$4,000	7/97
Nways Enterprise Manager Release 2	5777-AAK	–	$31,500	6/97
Nways Campus Manager products				
Campus Manager Suite for HP-UX V2	5697-B10	0100	$22,000	3/97
Campus Manager LAN for HP-UX V2	5697-B11	0100	$11,000	3/97
Campus Manager ATM for HP-UX V2	5697-B12	0100	$6,000	3/97
Campus Manager LAN Remote Monitor for HP-UX V2	5697-B18	0100	$5,000	3/97
Campus Manager LAN Remote Monitor Advance for HP-UX V2	5697-B20	0100	$8,000	3/97
Upgrade to Campus Manager Suite for HP-UX V2 from Campus Manager Suite for HP-UX V1	5697-B10	0105	$250	3/97
Upgrade to Campus Manager Suite for HP-UX V2 from Campus Manager LAN for HP-UX V1	5697-B10	0101	$11,000	3/97
Upgrade to Campus Manager Suite for HP-UX V2 from Campus Manager ATM for HP-UX V1	5697-B10	0102	$16,000	3/97

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Item	Part Number / Machine Type	Model / Feature	Price (US $)	Availability
Upgrade to Campus Manager Suite for HP-UX V2 from Campus Manager LAN Remote Monitor for HP-UX V1	5697-B10	0103	$17,000	3/97
Upgrade to Campus Manager Suite for HP-UX V2 from Campus Manager LAN Remote Monitor Advance for HP-UX V1	5697-B10	0104	$14,000	3/97
Upgrade to Campus Manager LAN for HP-UX V2 from Campus Manager LAN for UP-UX V1	5697-B11	0101	$250	3/97
Upgrade to Campus Manager ATM for HP-UX V2 from Campus Manager ATM for HP-UX V1	5697-B12	0101	$250	3/97
Upgrade to Campus Manager LAN Remote Monitor for HP-UX V2 from Campus Manager LAN Remote Monitor for HP-UX V1	5697-B18		$250	3/97
Upgrade to Campus Manager LAN Remote Monitor Advance for HP-UX V2 from Campus Manager LAN Remote Monitor Advance for HP-UX V1	5697-B20		$250	3/97
Upgrade to Campus Manager LAN Remote Monitor Advance for HP-UX V2 from Campus Manager LAN Remote Monitor for HP-UX V1	5697-B20		$3,000	3/97
Nways Workgroup Manager and Remote Monitor products				
Nways Workgroup Manager for Windows NT	5801-AAR	2900	$2,795	6/97
Right to copy/use Workgroup Manager for Windows NT	5802-AAR	3340	$2,745	6/97
Upgrade from Nways Manager for Windows V2 to Nways Workgroup Manager for Windows NT	5803-AAR	4126	$150	6/97
Upgrade from Nways Manager for Windows V1 to Nways Workgroup Manager for Windows NT	5803-AAR	4127	$150	6/97
Right to copy/use upgrade from Nways Manager for Windows V2 to Nways Workgroup Manager for Windows NT	5804-AAR	3601	$100	6/97
Right to copy/use upgrade from Nways Manager for Windows V1 to Nways Workgroup Manager for Windows NT	5804-AAR	3602	$100	6/97

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Item	Part Number / Machine Type	Model / Feature	Price (US $)	Availability
Nways Workgroup Remote Monitor for Windows	5801-AAR	3368	$1,995	6/97
Right to copy/use Nways Workgroup Remote Monitor for Windows	5802-AAR	3251	$1,945	6/97
Upgrade from Nways Remote Monitor for Windows V1 to Nways Workgroup Remote Monitor for Windows	5803-AAR	4128	$150	6/97
Nways Managers for the 8273 and 8274 Nways RouteSwitches				
8273 Nways RouteSwitch Software Program V2.0.x	5697-B69	4040	$2,450	Available
8273 Nways RouteSwitch Software Program V2.1.x	5697-B69	4061	$2,450	Available
Upgrade to 8273 Nways RouteSwitch Software Program V2 R1.x from R0.x	5697-B69	4041	$950	Available
8273 Nways RouteSwitch Software Program V3.0.x	5697-B69	4018	$2,450	6/97
8274 Nways RouteSwitch Software Program V2.0.x	5697-B70	4042	$2,950	Available
8274 Nways RouteSwitch Software Program V2.1.x	5697-B70	4060	$2,950	Available
Upgrade to 8274 Nways RouteSwitch Software Program V2 R1.x from R0.x	5697-B70	4043	$950	Available
8274 Nways RouteSwitch Software Program V3.0.x	5697-B70	4022	$2,950	6/97
8274 Nways RouteSwitch Advanced Routing Software Program V3.0	5697-B70	4014	$1,250	6/97
Nways RouteSwitch Network Manager V2.0.x for Sun Solaris	5697-B67	4049	$1,595	6/97
Nways RouteSwitch Network Manager V2.0.x for SunOS	5697-B67	4051	$1,595	6/97
Nways RouteSwitch Network Manager V2.0.x for HP-UX	5697-B67	4053	$1,595	6/97
Nways RouteSwitch Network Manager V2.0.x for Windows 3.1	5697-B67	4055	$495	6/97
Nways RouteSwitch Network Manager V2.0.x for Windows 95 and Windows NT	5697-B67	4057	$495	6/97
Nways RouteSwitch Network Manager V2.1.x for Sun Solaris	5697-B67	4062	$1,595	6/97
Nways RouteSwitch Network Manager V2.1.x for SunOS	5697-B67	4063	$1,595	6/97
Nways RouteSwitch Network Manager V2.1.x for HP-UX	5697-B67	4064	$1,595	6/97

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Item	Part Number / Machine Type	Model / Feature	Price (US $)	Availability
Nways RouteSwitch Network Manager V2.1.x for AIX	5697-B67	4059	$1,595	6/97
Nways RouteSwitch Network Manager V2.1.x for Windows 3.1	5697-B67	4066	$495	6/97
Nways RouteSwitch Network Manager V2.1.x for Windows 95 and Windows NT	5697-B67	4065	$495	6/97
Nways RouteSwitch Network Manager V3.0.x for Sun Solaris	5697-B67	4036	$1,595	6/97
Nways RouteSwitch Network Manager V3.0.x for HP-UX	5697-B67	4038	$1,595	6/97
Nways RouteSwitch Network Manager V3.0.x for AIX	5697-B67	4080	$1,595	6/97
Nways RouteSwitch Network Manager V3.0.x for Windows 95 and Windows NT	5697-B67	4078	$495	6/97
Nways RouteTracker Manager V2.1.x for Sun Solaris	5697-B68	4044	$1,595	6/97
Nways RouteTracker Manager V2.1.x for AIX	5697-B68	4045	$1,595	6/97
Nways RouteTracker Manager V2.1.x for HP-UX	5697-B68	4046	$1,595	6/97
Nways RouteTracker Manager V2.1.x for Windows 95 and Windows NT	5697-B68	4047	$495	6/97
Nways RouteTracker Manager V3.0.x for Sun Solaris	5697-B68	4044	$1,595	6/97
Nways RouteTracker Manager V3.0.x for AIX	5697-B68	4045	$1,595	6/97
Nways RouteTracker Manager V3.0.x for HP-UX	5697-B68	4046	$1,595	6/97
Nways RouteTracker Manager V3.0.x for Windows 95 and Windows NT	5697-B68	4047	$495	6/97
Nways RouteMonitor Manager V3.0.x for Windows 95 and Windows NT	5697-C11	4009	$495	6/97
Nways RouteDirector Manager V3.0.x for Windows 95 and Windows NT	5697-C0	4008	$495	6/97
Note: See product announcements or contact your local IBM representative or IBM Business Partner for product prices.				

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This fact sheet is for an IBM Networking Product announced on 11 March 1997.

The part numbers, prices and availability dates shown here are valid in the U.S. They will vary from country to country. Some products may not be announced in your country. Refer to product announcements for your country or contact your local IBM representative or IBM Business Partner™.