



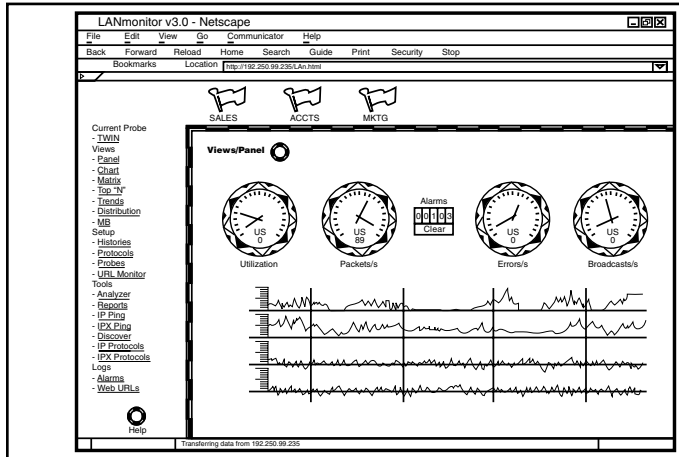
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BLACK BOX[®]

NETWORK SERVICES

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LANMONITOR SOFTWARE



Don't guess what's going on in your network! LANmonitor will show you—on any Java-enabled Web browser.

Key Features

- ▶ **Monitor Ethernet, Fast Ethernet, and Token Ring networks in real time.**
- ▶ **Monitor multiple networks or segments from a single computer—located anywhere that you can get to the Internet from.**
- ▶ **View, print, and export data and graphs on key traffic statistics, at both the network and node levels.**
- ▶ **Set alarm thresholds manually or automatically, then receive visual, audible, pager, or email alarm notification.**

Whether you're managing a network or sailing a ship, you need a good crew. Our LANmonitor software, like any good lookout, maintains a constant vigil on your network, spotting problems and sounding the alarm.

Then, like any good navigator, LANmonitor provides the vital information needed for an effective course correction. With LANmonitor's full set of tools, you can identify a wide range of network problems such as bandwidth congestion, broadcast storms, or even misuse of the Internet.

LANmonitor is a combination of network analyzer, RMON probe, and Web server. It collects vital network statistics and presents them through standard Web browsers running on any workstation within the intranet or on the Internet.

As a network manager, you need to be the first to know about network problems and you need to know the facts fast. LANmonitor does it all. It warns you of network changes and delivers the details needed to fix problems before users see them. So install LANmonitor—for smooth sailing.

LANmonitor has many individual components that add up to a very powerful package. The first part of it that you'll see is its instrument panel, shown in the illustration above as it would be viewed in a Netscape[®] Navigator[®] window. In a single screen, the instrument panel (shown above) presents easily understood meters and graphs that provide an instant snapshot of the network's status. From a browser anywhere, you have instant access to real-time statistics that present your network's utilization, packet rate, error rate and broadcast rate, as they happen.

Another screen (see 1, next page) is a chart that maps your network graphically, showing each node's operating status and the common services it provides, such as file server, Web server, mail server, bridge, or router. A single click presents complete information on any node.

LANmonitor can also capture packets and decode their protocols (see 2, next page), providing you a frame-by-frame analysis of network traffic showing packet protocols, sizes, addresses, and data. Packets captured can be saved to disk for later recall and analysis. You can capture all packets, or set up filters to capture only frames of interest. And you can even configure LANmonitor to start or stop packet capture when it detects a single packet matching the conditions you specify.

(continued at LANmonitor on next page)

(LANmonitor continued from first page)

LANmonitor can easily print standard reports or graphs, or export them to other programs for further analysis. (Think how handy that will be for substantiating budget proposals and such!)

Web usage is recorded in LANmonitor's URL logbook. Web usage can be monitored by group or by node. Source address, time, UDP/IP port, and the URL address are all recorded in straightforward tables.

LANmonitor also presents the frequency distribution of protocols and packet sizes in both pie charts and bar graphs (see 3, page 3), making it oh-so-

easy to analyze your application-traffic patterns.

Another screen makes it simple to spot trouble in time to prevent it. LANmonitor illustrates network trends by storing node information and presenting it as raw data or graphs (see 4, page 3). Again, it's no problem to export this information to spreadsheets for further analysis or reporting.

Are you a detail person? LANmonitor can give you detailed statistics for MIB II, RMON (including Token Ring extensions), and its own probe MIB.

If you set alarm thresholds for LANmonitor, it will automatically sample traffic, and if any of the thresholds are exceeded, the

software will issue an alarm and keep a record of all instances in an alarm logbook.

LANmonitor can give you "top 'N' reports" as well (see 5, page 3). These rank hosts from highest to lowest in terms of any selected MIB statistic, making it simple to identify which host is causing the most errors or using the greatest amount of network resources.

For simple protocol management, LANmonitor supports remote "ping" capabilities for IP and IPX. It also has a "discover" function that finds IP and IPX ports not being tracked by the probe's current configuration.

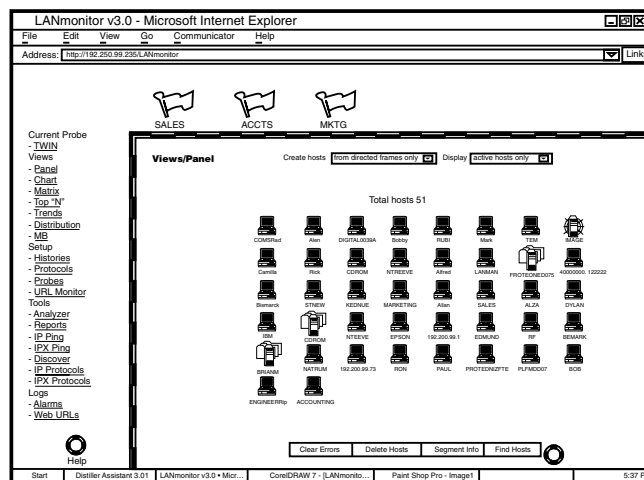
Yet another screen presents "conversation patterns"—including source, destination,

error, and protocol information—in a matrix format, which can be a great help in understanding traffic patterns, "hot spots," and the origins of network errors (see 6, page 4). And this, in turn, will help you make decisions about network segmentation. For more information, "drill down" on any matrix cell to display the protocol decomposition of the selected network conversation.

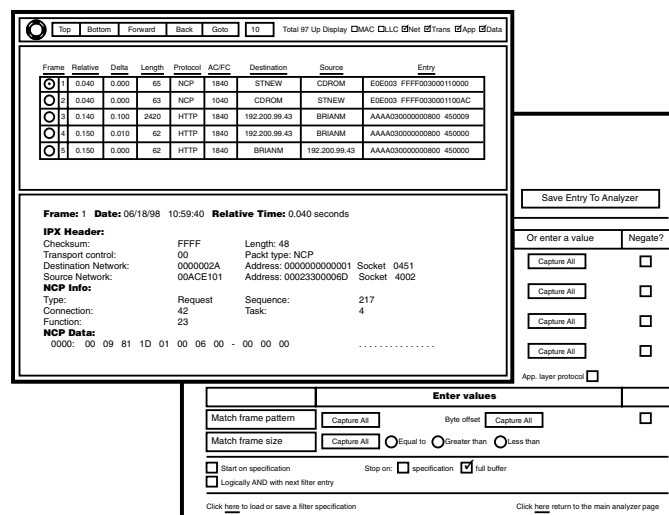
Lastly, if you're not sure how a given LANmonitor function works, or if you're having trouble getting a function to work, the software includes complete, context-sensitive online help.

Here are some of the other screens that LANmonitor will display:

1 The Chart View

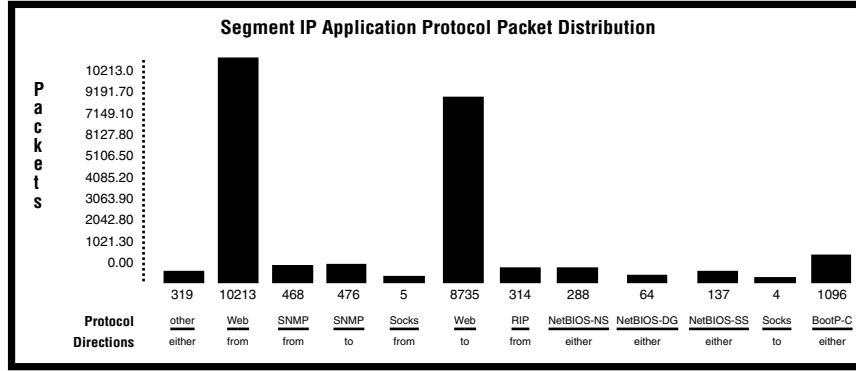


2 Packet Capture and Decoding

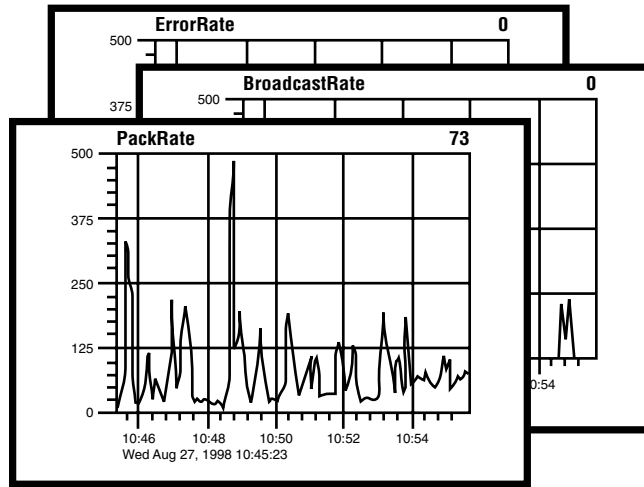


Selected LANmonitor screens (continued):

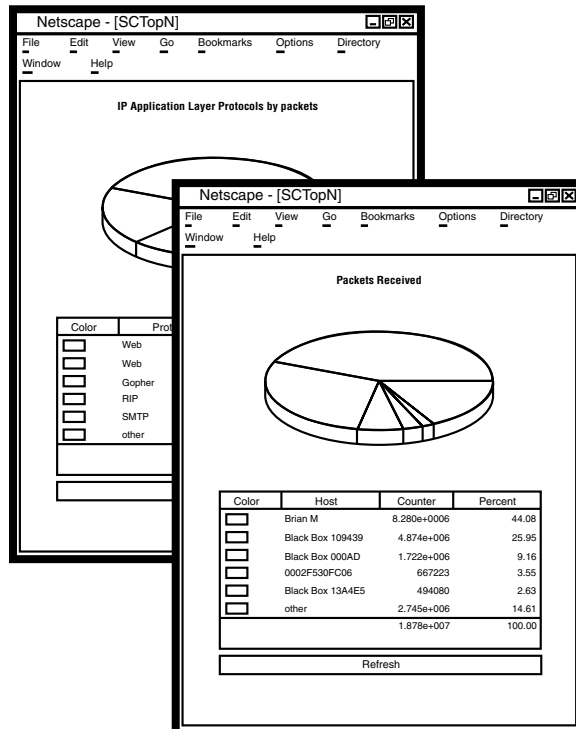
③ Frequency Distribution



④ Dynamic Trend Charts

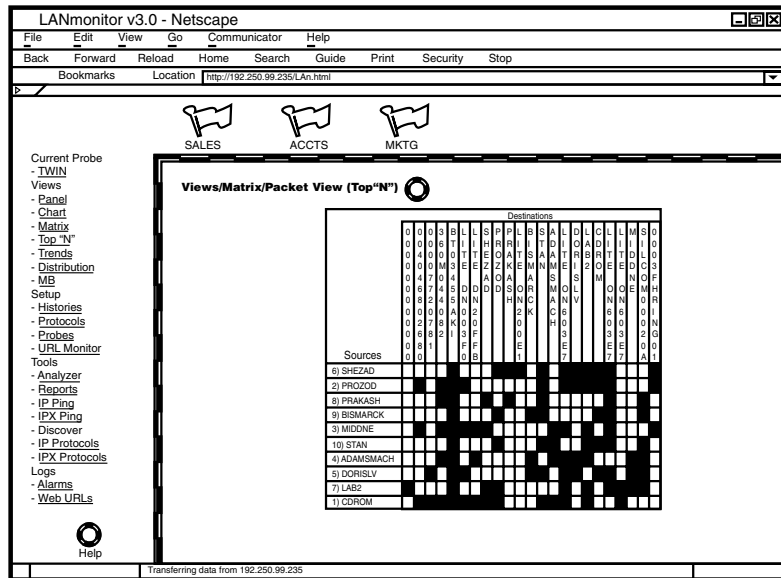


⑤ The Top "N" Distribution



Selected LANmonitor screens (continued):

⑥ The Conversation Matrix



Specifications

System Hardware Required:

- IBM® PC/AT® or PS/2® compatible computer with at least:
 - a 90-MHz Intel® Pentium® or equivalent processor;
 - 32 MB of RAM;
 - a hard drive with at least 10 MB of free space;
 - a floppy disk drive;
 - a monitor that supports at least 1024 x 768 resolution and at least 256 colors; and
 - a NIC that supports promiscuous mode

Operating System Required:

Microsoft® Windows® 98 or Windows NT 4.0 or higher, workstation or server version

Other Software Required: 32-bit Java-enabled Web browser such as Netscape® Navigator® (version 3.02 to 3.05, 4.01 or higher) or Internet Explorer® (version 3.01, 3.02, 4.01 or higher)

MIBs Used: SNMP MIB II, RMON with Token Ring extensions, proprietary LANmonitor probe MIB

Supported Protocols:

- ARP;
- TCP/IP (including IP, TCP, UDP, OSPFIGP, RIP, BootP, DNS, SNMP, SNMP trap, and ICMP);
- AppleTalk® (including AARP and ATP);
- IPX (including IPX, SPX, RIP, SAP, NCP, NetBIOS, and SMB);
- NetBIOS (including SMB);
- DECNET Phase IV (including MOP Remote Console);
- IEEE 802.1d Spanning Tree;
- IEEE 802.2 SNAP;
- IEEE 802.3 Ethernet;
- IEEE 802.5 Token Ring (including MAC and source routing); and
- DIX

Typical Applications

A broadcast storm is in progress. Auto-partitioning is in effect. Users on the affected segment are screaming. Find the culprit(s) quickly with LANmonitor and rescue your day.

Supervisors suspect that a user is doing "fun in the sun" surfing under cover of "Internet research." Find out whether the user is going to "www.reference-desk.org" or "www.naughty-games.com."

The Complete Package

- (2) 3.5" diskettes containing LANmonitor and all required MIBs.
- Users' manual.

Ordering Information

ITEM	CODE
LANmonitor	
Single-Seat License.....	LS3270-P1
3 Licenses.....	LS2370-P3
5 Licenses.....	LS2370-P5
10 Licenses	LS2370-P10