



COMPUTERISED
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Software Solutions

FOR THE TELECOMMUNICATIONS INDUSTRY

CTS NTS

FORECAST FUTURE BANDWIDTH USAGE
MONITOR AND EVALUATE YOUR NETWORK
IDENTIFY CONFIGURATION ISSUES

With over 20 years of experience in the telecommunications industry, Computerised Business Systems, Inc. creates software solutions which are aimed at adding value to our customer's business through increased productivity, profitability, growth and competitive advantage.



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DO YOU KNOW WHAT'S HAPPENING ON YOUR NETWORK TODAY?

CAN YOUR CURRENT SYSTEM FORECAST FUTURE BANDWIDTH USAGE?

NETWORK TRAFFIC SYSTEM (NTS)

The Network Traffic System (NTS) is a combination software and hardware tool to monitor the health and efficiency of a computer network(s).

NTS monitors and evaluates traffic on computer networks, allowing network administrators to take a proactive approach in managing network bandwidth, and finding potential bottlenecks. NTS collects detailed statistics from all traffic that crosses its network interface without downgrading network performance, and presents statistics in an easy-to-read-and-use format.

NTS uses a browser-based interface for configuration and reporting. Using a browser-based interface will keep the complexities to a minimum for the novice or casual user. This will shorten the training time required to introduce new users to the system.

NTS provides a secure solution that is not SNMP-enabled. As was recently disclosed, (*Alert 02-001: Potential for Multi-Sector Internet Outages* (February 12, 2002) located on the National Infrastructure Protection Center website, www.nipc.gov), SNMP has some very disturbing security holes. By not being SNMP-enabled, we completely avoid this issue.

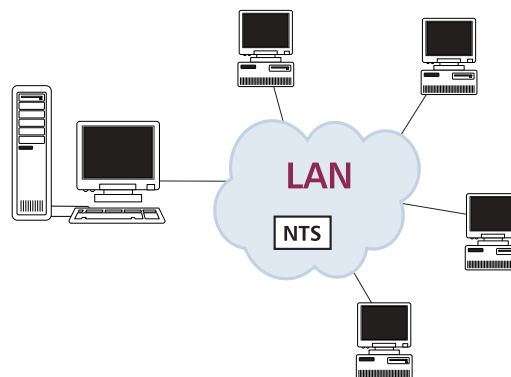
BENEFITS OF NTS

- Provides the ability to forecast future needs/trends based on historical data.
- Allows for provisioning of current bandwidth.
- Identifies possible configuration issues.
- Assists with quality of service issues.
- Passively reviews data as it passes across the network.
- Provides assistance with monitoring and evaluating your network.
- Graphical representation

HARDWARE DESIGN

The hardware probe or capture device is built upon industry standard hardware and fit into a standard 19" rack. It will only take up 1 unit and does not require a monitor, keyboard, or mouse.

NTS utilizes a modified Linux distribution that resides on a flash disk and leaves the hard drive completely available for data storage. The primary benefit of using a flash disk for the operating system is that it can be mounted read only and thus prevents catastrophic failure of the device due to unexpected shock or power loss.



NTS monitors and evaluates the health and efficiency of a computer network so network administrators know exactly what is happening on their network at all times. They can identify problem areas, save money with proper bandwidth utilization, justify costs, forecast future bandwidth needs, identify misuse, and print all appropriate reports.



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NTS Continued...

FUNCTIONALITY

NTS monitors the traffic that is going across its ethernet adapter.

Features

Collection and monitoring capabilities:

General Traffic Statistics, (TCP, UDP, ICMP, ARP, RARP, IP, IPX, Appletalk, NetBios, and NON IP)

- Total count of packets and bytes
- Count of broadcast packets and bytes
- Rate of packets and bytes
- Checksum error counts.

Traffic Statistics by protocol and port

- Total count of packets and bytes.

Traffic Statistics by individual MAC and IP address

- Total count of packets and bytes
- Above ordered by source to destination.

Graphical representation of traffic is available on daily reports.

Additional Protocols Supported

VLAN 802.1q

REPORTING AND FORECASTING

NTS provides generic reporting capabilities based on the information that is collected from the network.

General Traffic Statistics, (TCP, UDP, ICMP, ARP, RARP, IP, IPX, Appletalk, NetBios, and NON IP)

- Quarter hour statistics report
- Half hour statistics report
- Hourly statistics report
- Daily totals/summary report
- Peak "busy hour" report.

Traffic Statistics by protocol and port

- Quarter hour statistics report
- Half hour statistics report
- Hourly statistics report
- Daily totals/summary report
- Peak "busy hour" report
- Top protocol usage report.

Traffic Statistics by individual MAC and IP address

- Quarter hour statistics report
- Half hour statistics report
- Hourly statistics report
- Daily totals/summary report
- Peak "busy hour" report
- Top 10 users report
- Top 10 destinations report.

PLANNED ENHANCEMENTS FOR FUTURE RELEASES

Additional Protocols

- Alcatel
- Lucent
- Bay/Nortel
- RTP for soft switches

Additional Modules

- 56kb modem for dial-in
- Gigabit Ethernet monitoring
- Fiber monitoring
- 802.11(b) wireless monitoring
- Packet Cable delivery function
- Packet mode intercept

Additional collection and monitoring capabilities:

Automated Reporting

- Send daily and weekly reports to user supplied email address.

Remote Monitoring

- View a set series of graphs that will show current trends in real time.

Introduction of web based monitoring feature.