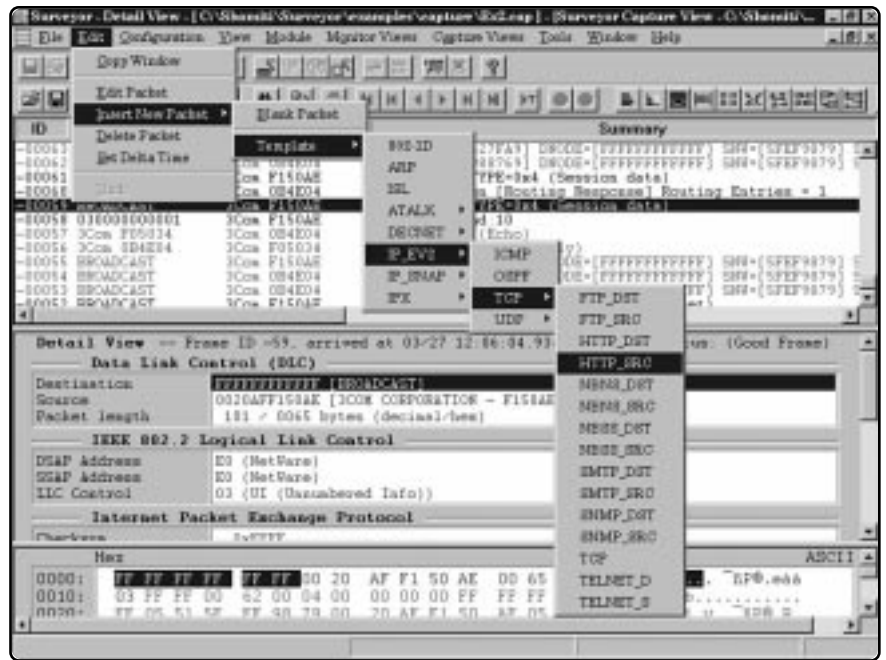


# PACKET BLASTER MODULE FOR SURVEYOR

## Advanced Traffic Generation And Packet Editing Functionality

### Product Features

- Advanced traffic generation capabilities to simulate and troubleshoot 10/100 Ethernet networks.
- Intelligent packet and capture file editing for full seven-layer customization of data to be stored or transmitted.
- Specify frame rate, burst count, or percentage utilization — no need to manually calculate inter-packet gaps for various traffic loads.
- Runs over Century Media Modules and 10/100 Ethernet adapters with NDIS drivers.
- Protocol templates available for packet customization.
- Automatic CRC generation and checksum calculation.
- Software plug-in module for Surveyor.



Packet Blaster adds advanced traffic generation and intelligent packet and capture file editing capabilities to Surveyor, Shomiti Systems' Windows-based network analyzer. Ideal for those in test, manufacturing and support organizations, Packet Blaster provides the tools needed to thoroughly test, simulate and troubleshoot a network device or problem.

Packet Blaster can be quickly configured to generate a single packet such as an ARP or PING to troubleshoot a production network or generate a series of packets to saturate a test network.

**Advanced Traffic Generation** Once a traffic stream has been created via Packet Blaster's interactive screens, Packet Blaster can retransmit the stream to troubleshoot, test, or otherwise simulate a network. Use of Century Media Modules allows a user to do this while maintaining precise timing and network load characteristics.

Packet Blaster enables a user to create complex transmit specifications with user-defined packet data streams, a captured trace data file or a combination of these. Additional flexibility is provided through the use of "wildcards" in the source and/or destination address fields that allow randomized or sequential addresses. When run over a Century Media Module, traffic rates over 100% of Fast Ethernet can be specified and packets can be generated from eight to 15,000 bytes in length.

**Intelligent Packet Editing** Packet Blaster allows a user to capture traffic on a LAN and intelligently edit any part of the capture file. Packet contents (including CRC) may be modified, packets may be deleted, packets may be added, and inter-packet gaps may be modified to as little as a 35 nanosecond resolution when used over a Century Media Module. The "intelligence" comes from an easy to use interface that is template and menu driven.

Since Surveyor is a seven-layer protocol analyzer, Packet Blaster provides constant feedback on the type and validity of the packet stream being edited or created. The software, which decodes packets as they are being created, provides the user with easy to understand translations, upper-layer checksum calculations, and MAC-layer CRC calculations — all of which may be created as valid or invalid to test different scenarios.

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## Technical Specifications

### System Requirements

System	Pentium class system
Memory	32MB minimum
Disk Space	1.5MB
Operating System	Windows 95/98 or NT 4.x
Display	800 x 600 (SVGA)
Network Interface	10/100 Ethernet Century Media Module Versions 1 and 2, NDIS 10/100/1000 Ethernet

### Compatibility

Surveyor 2.4 only (Cannot be installed on Portable Surveyor)

## Packet Blaster Key Features

Packet Blaster enables the user to customize a test scenario via the transmit specification window. In this example, two user-defined data streams and one trace file comprise the traffic to be generated on the network. The user has the capability to specify MAC addresses or a range of MAC addresses. A wide range of packet templates are included or the user can manually create his own packets. Previous saved capture files can also be included in the test scenario. Packet transmission rates can be specified by packet gap, frame rate or traffic rate. The inherent flexibility of Packet Blaster's traffic generation capability allows the user to create any test scenario whether it be a pure performance test, a device conformance test, or troubleshooting test.



Packet Blaster allows the user to edit any portion of a packet. A packet may be altered to have a bad CRC value to see how a target network device reacts. Technical support may alter the network addresses of a customer supplied trace to match the subnet address of the support lab. Surveyor's comprehensive seven-layer packet decode provides constant feedback on the content and validity of the packet.



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