STINGA NGN
Monitor

Extremely cost-efficient
World class support
Very easy to use
Very Portable

Protocol Analyzers & Simulators
for
Traditional, Fixed Mobile, Converged and Next Generation Networks

UTEL SYSTEMS

Your customers will notice

STINGA NGN Features & Benefits

STINGA NGN MONITOR

STINGA NGN Monitor is a stand-alone real-time NGN protocol analyzer - a complete system of software and hardware to monitor network traffic over IP. For network providers this is a vital tool in delivering high Quality of Services (QoS).

Next Generation Networks (NGN) handle complex systems and services such as voice, video, and data applications. With multiple services, more network traffic, and high customer expectations for quality, keeping up in the agile environment is challenging for network providers. In a competitive market monitoring network signals, protocols, behaviour, and QoS is more important than ever.

Gain better control
STINGA NGN Monitor helps network providers to meet new challenges. Monitoring networks with STINGA Protocol Monitors give network providers a true assessment of network signals and performance. These detailed network data are useful in terms of becoming more proactive, gain better control over own networks, and ensuring the network is delivering on its premises. The monitored data can work as a basis for network planning, analysis of customer experience, protocol analysis, and network surveillance etc.

The Call Detail Record (CDR) generator makes it easy to create custom reports and statistics for executives. These reports give a more functional overview of network data and makes it easier to do network planning and maintenance.

It also becomes easier to resolve network problems and protocol irregularities with STINGA NGN Monitor. And, when monitoring in real-time, issues can be resolved before anyone notice.

Expert support
To ensure our customers are up-to-date, all STINGA products are adapted to new technological changes. New protocols and versions are added continuously. Other protocols and national protocol variants are implemented on customer request.

BENEFITS—improve your business

- Cost-efficient solutions
- Real-time monitoring, decoding, and statistics
- Easy-to-use Windows based user interface
- Improve Quality of Service in your network
- Provide important information about network behavior and performance
- Generate Call Detail Records for executives. Generate different statistical reports presenting Network Performance and Quality of Service parameters.
- Make network management and planning easier
- Resolve your network problems easily, before your customers even notice
- Direct expert support offered online by skilled telecom engineers.
- Tailored and custom solutions in just a few days
- Scalable and flexible solutions
- Training available by highly experienced and skilled protocol and signalling specialists
- Easier to track and search for protocol irregularities
- Billing and accuracy verification. Can compare reports with Billing systems

KEY FEATURES

- **NGN protocol analysis/monitoring**
- **CDR Builders**
- **Runs on standard PCs with Windows and an Ethernet interface (no custom hardware needed)**

OVERVIEW

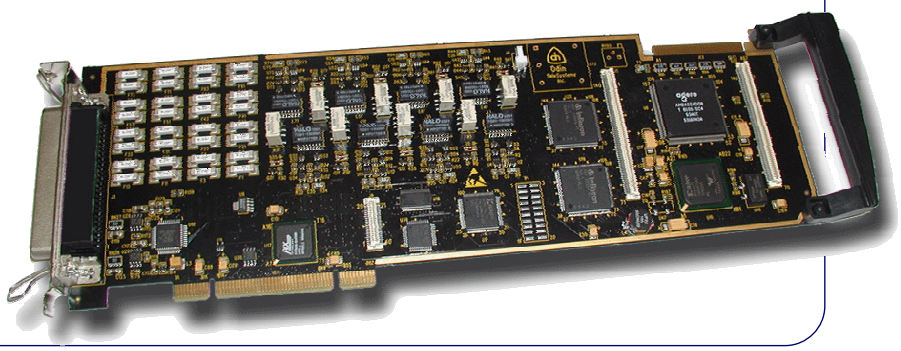
Components
The cost-efficient STINGA test instruments from Utel Systems comprises the following components related to NGN protocol analysis:

- One or more software modules:
  STINGA NGN Monitor for protocol analysis.
- Standard network interface cards (NICs) or dedicated high performance monitoring NICs.

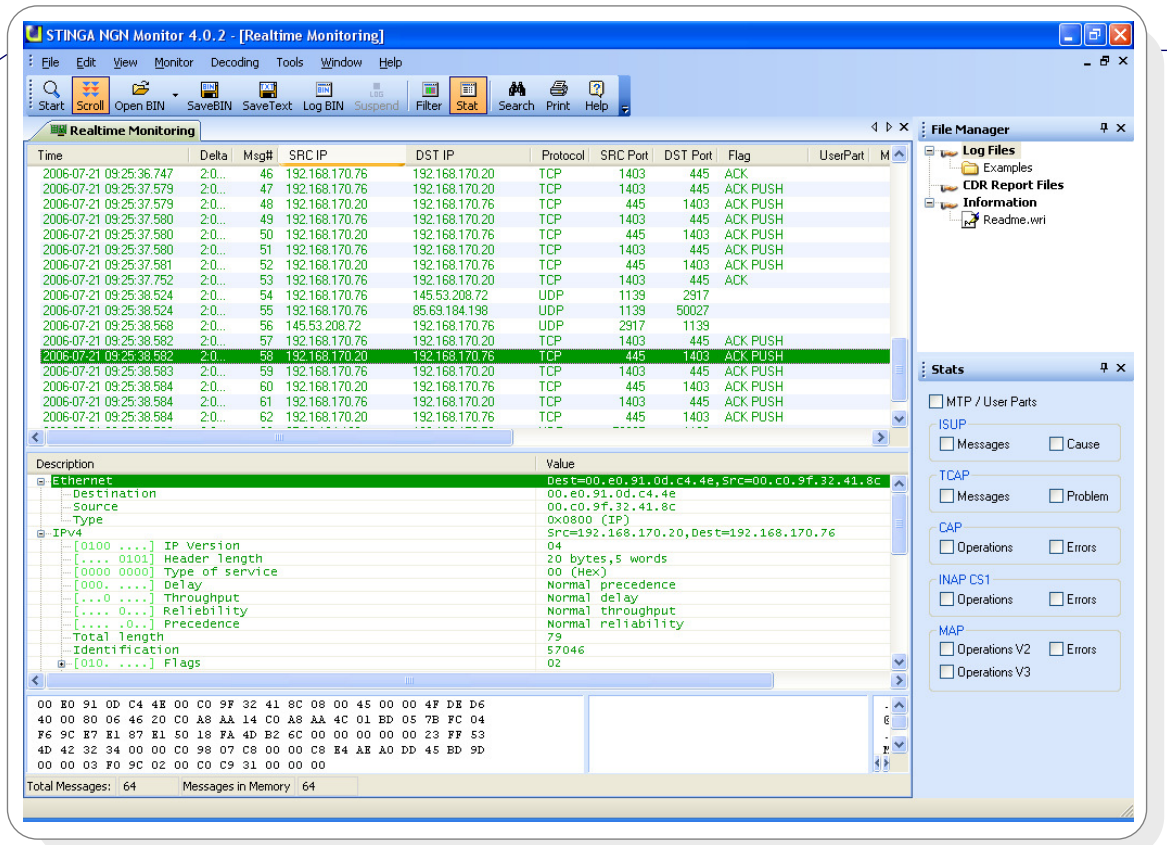
Highly Portable
With these hardware and software components, highly portable protocol simulators and analyzers, desktop protocol simulators and analyzers, and rack-based monitoring probes are supported.

Cost-efficient Windows-based Test Instruments
All software and hardware components are running on standard notebook and desktop PCs with Windows, providing cost efficient IT service, fast learning curve, easy and cheap access to replacement units.

Same User Interfaces for all Products Reduce Costs
All test instruments from Utel Systems are based on the same windows user interface framework. The user do not have to focus on how to use different applications, meaning full focus on different protocols and network technologies in use. Same decoding format for monitor and simulator results in time efficient testing.



STINGA NGN Protocol Monitoring & Analysis



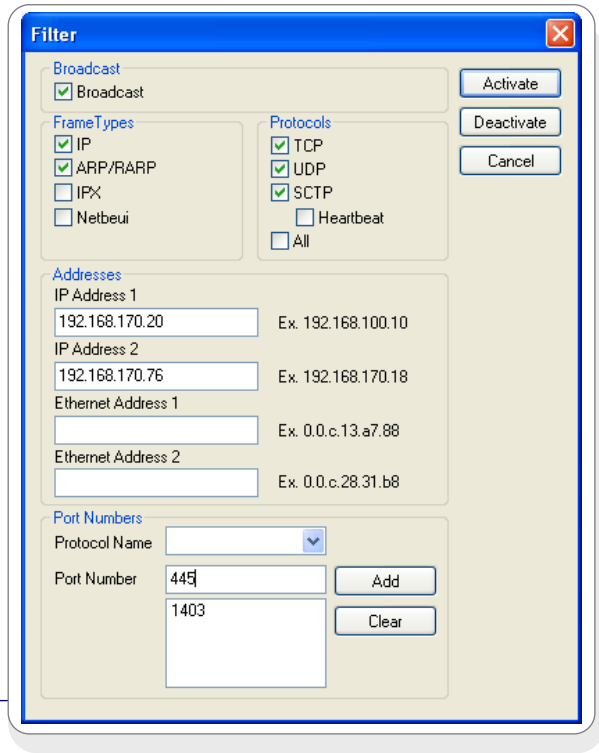
Easy to use Windows-based user interfaces. CDR files and log files etc. are easily accessed from the Simulator Files pane to the right.

Protocol Monitoring
The supported protocols are decoded down to a detailed level. Fields pointed on in the detailed decoding are highlighted in the hex window. Hex messages imported from other systems can be decoded

Comprehensive decoding of IP/TCP/UDP/SCTP protocols, and applications like Megaco, MGCP, SNMP, SIP and DNS. Decoding of SS7oIP inclusive MTP, ISUP (v1, 2, 3 and 4), TUP, SCCP, TCAP, INAP, MAP (v3), CAP and IS-41 is provided.

A monitored signalling sequence can be stored on hard disk for post processing. Several formats are supported, including pcap, ASCII, HTML and XML.

Protocol Analysis
Captured messages can be presented interleaved or on call basis (Call Trace View). It is also possible to generate QoS/KPI reports based on xDRs (CDRs/TDRs/IPDRs) for top-down analysis.
Statistics and filtering on different protocols are also supported.



The included filters are very easy to set up.

STINGA NGN Technical Specifications

TECHNICAL SPECIFICATIONS

Hardware & Software Requirements

- Software modules runs on Windows XP/ Vista/7/Server 2003/2008.
- WinPcap 4.1.0 or newer
- Any Network Interface Card (NIC) providing a standard Ethernet interface.

Protocols Supported

- Ethernet
- IP, ICMP
- TCP, UDP, SCTP
- DNS, NetBIOS, SNMP
- RTP, RTCP
- SIGTRAN (SCTP, M2PA, M2UA, M3UA, SUA, IUA, DUA, V5UA)
- SIP, SDP
- SIP-T/SIP-I (ITU ISUP, ANSI ISUP, UK ISUP, BICC)
- H.323 (H.225.0, H.245)
- Megaco/H.248
- MGCP
- STUN
- T.38
- DIAMETER
- RADIUS
- GTP', GTP-C, GTP-U
- ALCAP
- SS7oIP
  - ISUP (ITU, ANSI, UK, Japan TTC) - ISDN User Part
  - BICC - Bearer Independent Call Control
  - TUP (ITU, Chinese)- Telephone User Part
  - IUP (British Telecom TUP)
  - SSUTR2 (French TUP)
  - SCCP (ITU, ANSI, Japan TTC, Chinese) - Signalling Connection Control Part
  - TCAP (ITU, ANSI) - Transaction Capabilities Application Part
  - INAP - Intelligent Network Application Part:
    - Core INAP
    - INAP CS1
    - INAP CS2
    - Ericsson Core INAP
    - Alcatel Core INAP
    - Siemens INAP: SINAP5 & SINAP7
    - Ericsson INAP CS1+
    - Alcatel INAP CS1+
    - British Telecom INAP CS1+
    - Ericsson Light Weight INAP
  - MAP - Mobile Application Part
  - SMS - Short Message Service
  - CAP - CAMEL Application Part
  - IS-41/ANSI-41, IS-637, IS-826, IS-848
  - Supplementary Services
- Other protocols and national protocol variants are implemented on customer requests.

Related Products

- STINGA Monitoring Probe
- STINGA Monitoring System
- STINGA Report Generator
- STINGA SS7 Monitor
- STINGA SS7 Simulator
- STINGA ISDN Monitor
- STINGA ISDN PRA Simulator
- STINGA Mobile Monitor
- STINGA V5 Monitor
- STINGA V5 Simulator
- STINGA IRI Analyzer

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Distributor
Please contact us for information about your local distributor.
A distributor overview is also available at our web site.

Your customers will notice