



# STINGA PROTOCOL ANALYZER

Protocol Monitoring, Real-time & Offline Analysis, Call Trace & Call Flow

## STINGA Product Family:

- Network & Business Analytics
- Telecom Network Traffic Capture
- Protocol Analysis & Simulation

STINGA Protocol Analyzer is suitable for real-time and offline protocol monitoring, decoding and analysis, Call Detail Record generation, Quality of Service and Network Performance analysis, error tracking, network surveillance, network maintenance and more.

Protocol stacks within IP, mobile, converged and legacy networks are supported.

## FEATURES

- Monitoring multiple TDM (E1/T1/J1) interfaces
- Monitoring multiple Ethernet interfaces
- Real-time monitoring, decoding and analysis
- Offline decoding and analysis
- Call Trace and Interleaved Message Trace
- XDR Generation and Reporting
- XDR Search and Filtering
- XDR Correlation
- Advanced Message and Call Trace Filtering
- Message Flow Diagram
- Quality of Service and Network Performance analysis
- Voice monitoring over TDM
- DTMF Detection over TDM
- Hex Decoder
- ITU, ANSI, Japanese, Chinese standards supported
- TDM & GigE Capture Devices
- Laptop, desktop and server solutions
- Running on Windows 10, Windows Server 2012/2016

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## SPECIFICATIONS

### Interfaces:

- TDM (E1/T1/J1)
- Ethernet – electrical and optical

### IP, VoIP, IMS Networks:

- IP, TCP/UDP/SCTP
- SIP, SDP, SIP-T/SIP-I, RTP, RTCP
- MSRP
- H.323 (H.225.0, H.245)
- Megaco/H.248, MGCP
- Diameter, Radius
- GTP', GTP-C, GTP-U
- MLPP, eMLPP
- SMPP

### Mobile Networks:

- 5G:  
Xn, NG
- 4G – LTE/LTE-A:  
Cx, Gx, Gxa, Gxc, Gy, ISC, Ma, Mb, Mg, Mi, Mj, Mk, Mr, Mw, Mx, Rf, Ro, Rx, S1-C/S1-MME, S2b, S3, S4, S5, S6a, S6b, S6d, S8, S11, S12, S13, SGI, Sh, Si, SLh, SLs, STa, Sv, SWm, Sy, X2-C, Zh
- 3G – UMTS:  
Iub, IuCS, IuPS, Iur, Mc, Mp, Nb, Nc
- 2.5G – GPRS:  
C, D, E, F, Ga, Gb, Gc, Gd, Gf, Gi, Gn, Gp, Gm, Gr, Gs, Lg, Lh, Mb, MM5, Vx
- 2G – GSM/CDMA:  
Abis, A

### Access Networks:

- ISDN PRI, Q.SIG, DPNSS/DASS2, V5.1/V5.2

## SPECIFICATIONS

### SS7 Networks:

- SS7oTDM & SS7oIP/SIGTRAN
- MTP (ITU, ANSI, Japan TTC)
- M2PA, M2UA, M3UA, IUA, SUA, DUA, V5UA
- ISUP (ITU, ANSI, UK, SPIROU, Japan TTC)
- BICC (ITU, UK)
- TUP (ITU, Chinese ITU, SSUTR2, IUP)
- SCCP (ITU, ANSI, Japan TTC, Chinese ITU)
- TCAP (ITU, ANSI)
- MAP, CAP/CAMEL, SMS
- INAP (INAP CS1, INAP CS2, INAP CS1+ variants)
- IS-41/ANSI-41, IS-637, IS-826, IS-848
- AIN

## SOFTWARE & HARDWARE

### Software Modules:

- 20701: STINGA NGN Monitor
- 20551: STINGA SS7 Monitor
- 20527: STINGA ISDN Monitor
- 20536: STINGA V5 Monitor

### Hardware Modules:

- 20146: PIST-8M-TDM-USB, 4xE1/T1/J1 (4xRX/RX)



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