

STINGA PROTOCOL SIMULATOR

Security & Penetration Testing, Load & Performance Testing, Functional Testing

STINGA Product Family:

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

STINGA Protocol Simulator is an essential tool for network operators and service providers in ensuring Quality of Service and Quality of Experience, supporting security & penetration testing, load & performance testing, functional testing and troubleshooting.

STINGA Protocol Simulator is a cost-efficient test tool for SS7/SIGTRAN, ISDN PRI and Diameter simulation.

FEATURES

Diameter Simulation (Coming 2020)

- Protocol State Machine based on RFC 6733
- Protocol State Machine handles activation of the two possible associations: Initiator and Responder
- Support for different vendor Ids: 3GPP, 3GPP2, Ericsson, Microsoft, ETSI, ITU, Cisco

SS7/SIGTRAN Simulation

- SCTP, M2PA and M3UA Protocol State Machines:
 - Simulating an SGP handling several ASPs
 - Simulating one or more ASPs
 - Multiple routing keys
 - Scriptable handling of M3UA endpoints and SCTP associations
 - Multiple SCTP associations and SCTP streams
 - CRC-32c and Adler-32 checksum support
- MTP2 Protocol State Machine - multiple MTP links
- ISUP and TCAP Protocol State Machines
- Win32 API for integration with 3rd-party solutions

FEATURES

ISDN PRI Simulation

- ISDN PRI Protocol State Machine
- Simulation of ISDN PRI TE & NT

General

- Simulation on multiple TDM (E1/T1/J1) interfaces and timeslots
- Simulation on dual Ethernet interfaces
- Script-based testing, SS7 Parameter Builder
- Conformance Test Suite Framework
- GSMA FS.11 & FS.19 Script Packages (optional)
- Call Generator for Load & Performance Testing
- Voice input/output through PC microphone/speakers (TDM only)
- DTMF generation and detection (TDM only)
- Real-time and offline decoding and analysis
- Call Trace and Interleaved Message Trace
- XDR generation, reporting, search & filtering
- Advanced Message and Call Trace Filtering
- Message Flow Diagram
- ITU, ANSI, Japanese, Chinese protocol standards supported
- Laptop, desktop and server solutions
- Running on Windows 10, Windows Server 2012/2016

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SPECIFICATIONS

Interfaces

- TDM (E1/T1/J1)
 - E1/T1/J1 alarm signals and link status
 - MTP (ITU, ANSI, Japan TTC, Chinese ITU)
- Ethernet – electrical or optical
 - Ethernet, IP
 - SIGTRAN: SCTP, M2PA, M3UA
 - SIP-T

Diameter Simulation

- Diameter (RFC 6733)

SS7 Simulation

- 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)
- INAP (INAP CS1, INAP CS2, INAP CS1+ variants)
- CAP, MAP, SMS
- IS-41/ANSI-41, IS-637, IS-826, IS-848
- AIN
- Supplementary Services

ISDN PRI Simulation

- DSS1 layer 2 (Q.921/I.441)
- Euro-ISDN layer 2
- DSS1 layer 3 (Q.931/I.451)
- Euro-ISDN layer 3
- North American National ISDN-2 (NI-2)
- Layer 6 and 7, ASN.1 (Supplementary Services)

SOFTWARE & HARDWARE

Software Modules

- 20567: STINGA SS7 Simulator, Diameter (coming 2020)
- 20551: STINGA SS7 Simulator, SS7oTDM
- 20561: STINGA SS7 Simulator, SS7oIP/M3UA
- 20566: STINGA SS7 Simulator, SS7oIP/M2PA
- 20562: STINGA SS7 Simulator, SIP-T
- 20563: STINGA SS7 Simulator, SCTP
- 20568: GSMA FS.11 Script Package
- 20569: GSMA FS.19 Script Package (coming Q1 2020)
- 20531: STINGA ISDN PRA Simulator

Hardware Modules

- 20146: PIST-8M-TDM-USB, 4xE1/T1/J1



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