

The STINGA product family covers solutions for:

- **Network Monitoring & Analysis**
- **Protocol Simulation & Analysis**

STINGA Monitoring System is a centralized and highly scalable multi-user network monitoring solution based on distributed monitoring probes. Running 24/7/365, this solution is suitable for proactive analysis, real-time analysis, alarm generation, statistics generation and KPI reporting. This is a perfect Business Support System & Operations Support System to ensure the network is delivering on its premises.



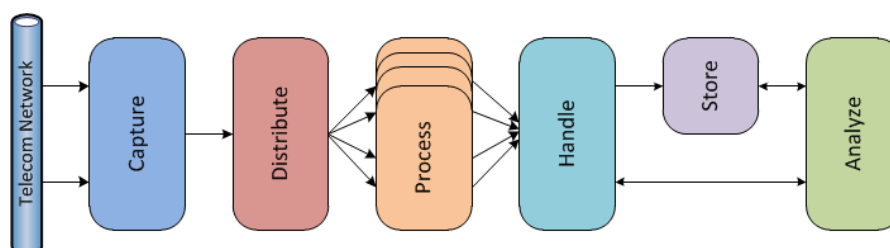
## Features

### Server-side Features:

- Centralized Telecom Network Monitoring
- Running 24/7/365
- Highly scalable – multiple probes, TDM (E1/T1) interfaces, Ethernet interfaces, traffic routers and protocol servers
- Monitoring multiple TDM and Ethernet interfaces simultaneously
- Alarm generation (incl. SNMP)
- Counter and Statistics generation
- Key Performance Indicator (KPI) reporting
- Voice Quality Analysis
- CDR Storage in SQL database
- CDRs available for 3<sup>rd</sup>-party applications via streaming or SQL database
- ITU, ANSI, Japan TTC, Chinese ITU and national protocol standards supported
- Standard servers running Linux (CentOS)
- TDM & 1/10 GE Capture Cards (PCIe)

### Client Features:

- KPI reporting
- Statistics reporting
- Alarms reporting
- Real-time and offline monitoring, decoding and analysis
- Call Trace and Interleaved Message Trace
- Call Detail Record (CDR) generation
- CDR Correlation
- CDR Search and Filtering
- Advanced Message and Call Trace Filtering
- Message Flow Diagram
- Top-down Quality of Service and Network Performance analysis
- Windows and web-based client applications running on Windows 10, Windows 8, Windows 7, Windows Server 2008 R2 and Windows Server 2012 R2 (32-bit and 64-bit)



## Interfaces & Protocols

### Interfaces:

- E1/T1/J1 interfaces, alarm signals and link status
- Ethernet interfaces (10/100/1000) – electrical and optical

### SS7 Networks:

- SS7oTDM
- SS7oIP/SIGTRAN
- SS7oRUDP/SS7oRTP

### IP, VoIP, IMS Networks:

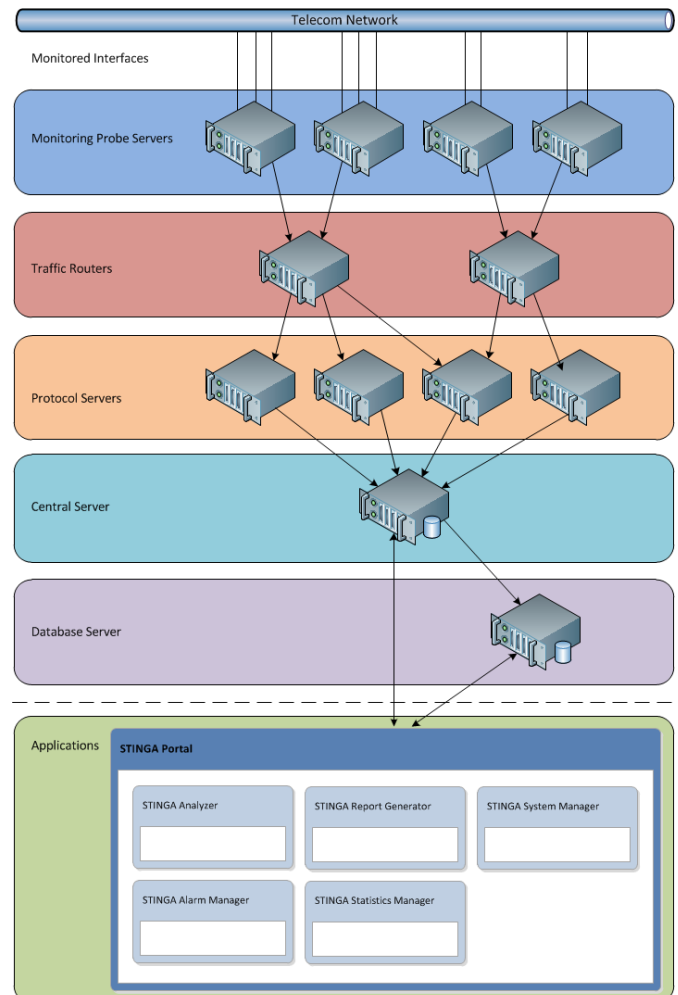
- IP, TCP/UDP/SCTP
- SIP, SDP, SIP-T/SIP-I
- H.323 (H.225.0, H.245)
- Megaco/H.248, MGCP
- DIAMETER, RADIUS
- GTP', GTP-C, GTP-U
- MLPP, eMLPP
- SMPP

### Fixed Mobile Networks:

- GSM/EDGE/CDMA: Abis, A
- GPRS: Gb, Gi/Mb, Ga/Gn/Gp, Gs, C/D/E/F/Gc/Gd/Gf/Gr/Lg/Lh/MM5/Vx
- UMTS: Nb, Iub, Iur, IuCS, IuPS
- LTE: X2-C, X2-U, S1-C/S1-MME, S1-U, S3, S4, S5, S6a, S10, S11, S12, S13, SGs, Gx, Gxa
- VoLTE

### Access Networks:

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



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