Lawful Interception

*B*ig data is awesome, but in the shadow of all the good bits and bytes there will be communication with a darker intent.* The *Law Enforcement Monitoring Facility (LEMF)* from Utel Systems is the ulimate tool to help Law Enforcement Agencies (LEA) to uncover serious criminal acivity. As a legally sancioned official access to private communicaions, *Lawful Intercepion (LI)* is a security process in which a service provider or network operator can intercept communicaions of private individuals or organizaions.

Included in the *Law Enforcement Monitoring Facility (LEMF)* is *STINGA CC Mediator*, *STINGA IRI Server*, *STINGA VoIP Extractor* and *STINGA LI Analyzer.*

STINGA CC Mediator

Decodes HI3 records/TCP streams and LI supplementary information like LIID. CallID and time information are stored in a database.

Sound/voice (PCM/AMR/AMR-WB, mono or stereo), is extracted from SIP RTP, Broadband ADSL or ISDN PRI (TDM) and saved to WAV/AMR files. Sound/voice related to multiple calls can be streamed to RTP players for real-time lis-
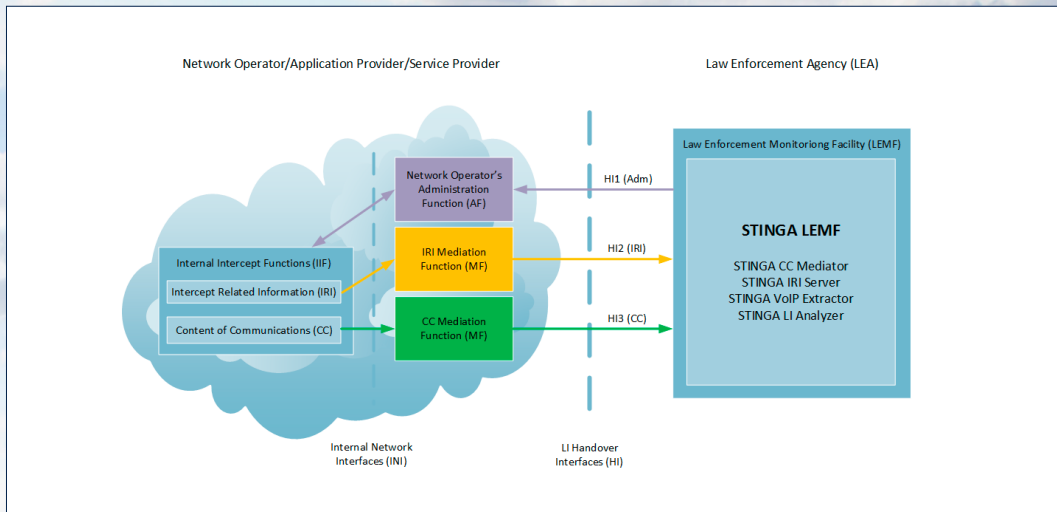
Features

- HI3 decoding.
- Real-time voice streaming.
- IMS, VoLTE, SIP, H.323 and ISDN.
- PCM, AMR and AMR-WB codecs.
- Mono & stereo sound.

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Network Operator/Application Provider/Service Provider — *Law Enforcement Agency (LEA)*

tening. For IMS/VoLTE, SIP signaling messages are typically transferred over HI3 with a CC header. STINGA CC Mediator is then used to extract relevant IRI information from the SIP signaling messages and from the CC header. The IRI information like Called Party Number, Calling Party Number, SMS, MMS and geographical information can in this case be saved to CSV files or to a database.

IP signaling related to the same LIID can be saved to a PCAP file. PCAP files can be analyzed further by STINGA VoIP Extractor to separate SIP/H.323 signaling messages and media. SIP/H.323 signaling messages are correlated with the corresponding media messages.

STINGA IRI Server

Decodes HI1/HI2 records and store relevant information in a database. HI1/HI2 can be correlated with HI3 information. *STINGA IRI Server* can also decode SIP messages, extract relevant IRI information and store the information in a database.

SMS messages (7, 8 and 16 bit) are converted to readable text and stored in the database. Fragmented SMS messages are concatenated.

Features

• HI1/H2 decoding and storage.
• HI1/H2 correlated with HI3.
• SMS decoding and storage (7, 8 and 16 bit).
• Fragmented SMS.

STINGA VoIP Extractor

Takes PCAP files as input and splits the signaling and user data into IRI files (SIP or H.323 signaling), WAV files (sound/voice) and RTP payload files correlated to SIP or H.323 calls. Signaling is decoded and call related information like start time, called party number, calling party number are stored in a database.

Features

• Signaling and media separation.
• Database storage.

STINGA LI Analyzer

A Windows-based protocol analyzer decoding Intercept Related Information (IRI) and Content of Communications (CC) based on IRI and CC files as input.

Features

• Protocol analysis.
• IRI decoding.
• CC decoding.

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