



Utimaco LIMS Access Point GTP



Lawful Interception of Mobile Data

The Utimaco LIMS Access Point GTP provides a cost-effective yet powerful alternative for target-based monitoring of mobile data in the 2G, 3G or 4G core network of a mobile operator. Thanks to the passive approach no reconfiguration of existing xGSNs or other network nodes is required. The LI appliance can be connected to the Gn/Gp links; respectively S5/S8 in LTE, via passive 1G or 10G Ethernet taps.

The LIMS Access Point monitors all GTP data in real-time, can extract metadata (IPDRs) and intercepts data of targeted subscribers. All LIMS Access Points in a network are centrally managed by the Utimaco Lawful Interception Management System (LIMS). Intercepted data are secured and mediated by LIMS before delivery to an authorized law-enforcement agency. The hand-over interfaces are fully compliant to common ETSI and 3GPP standards.

Features

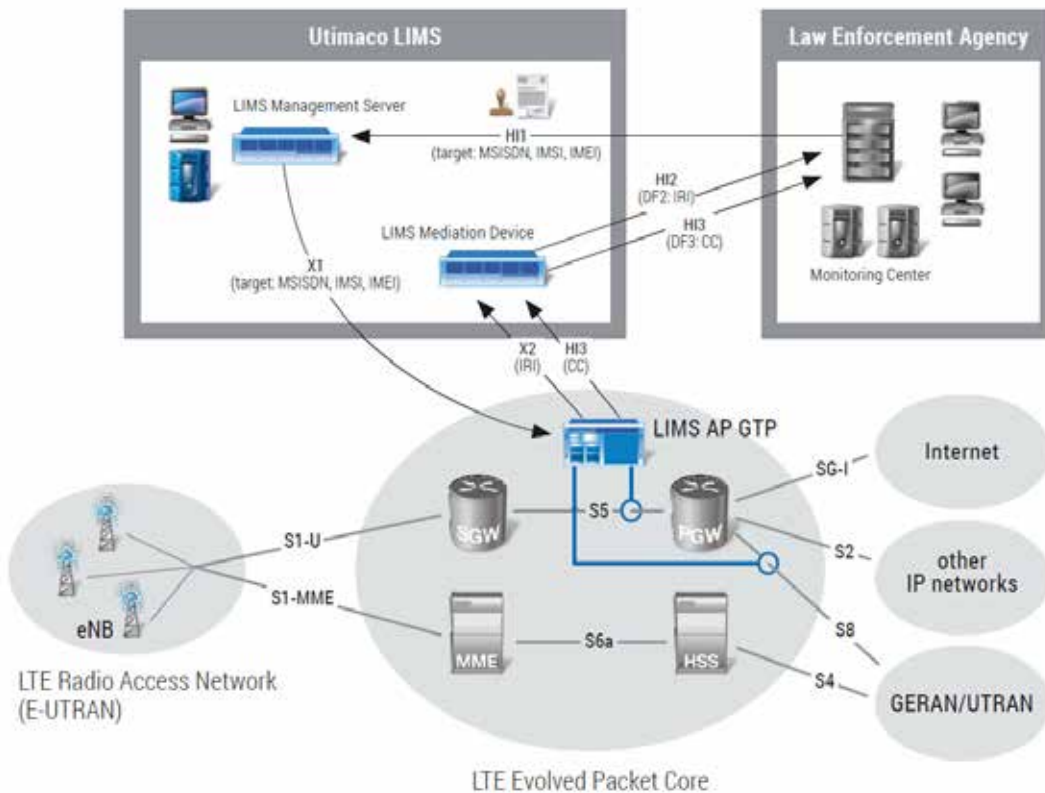
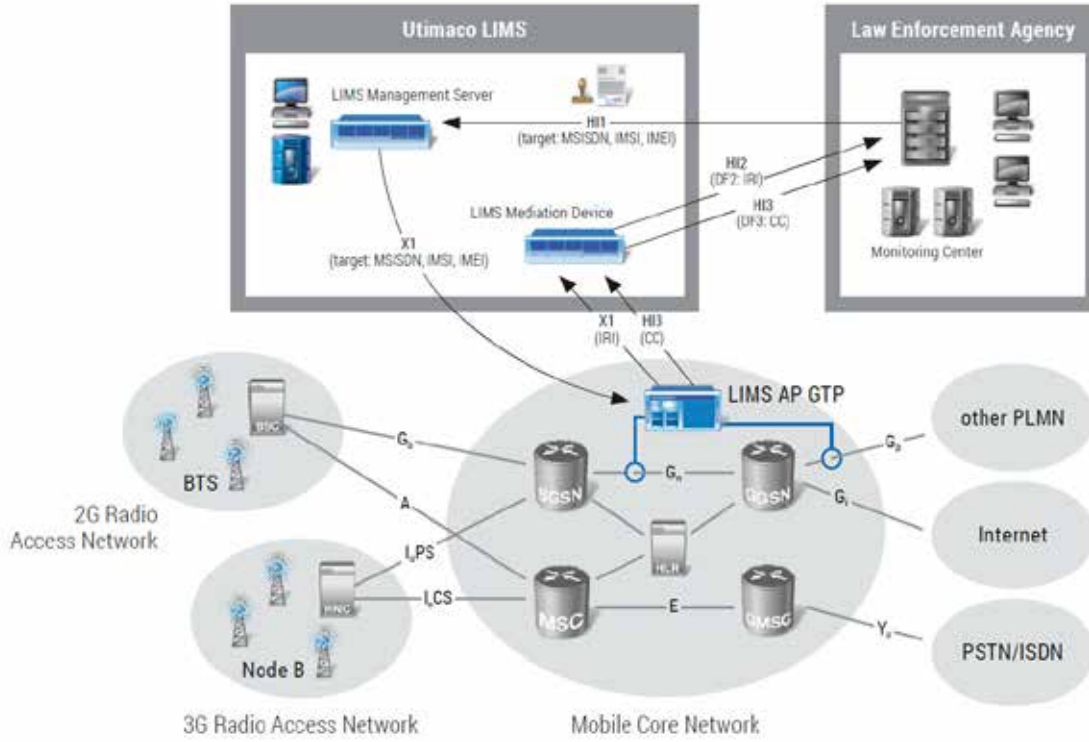
- Real-time data monitoring in GPRS, UMTS and LTE networks
- 1G and 10G Ethernet ports
- Up to 6 mio. pps
- Target-based interception
- IPDR generation
- Supports GTPv1, GTPv2
- Keeps track of all user sessions
- Standards compliant
3GPP TS 33.106-33.108 (ETSI)

Benefits

- 100% transparent, fully passive
- Turn-key solution
- Fully integrated in LIMS

Utlimaco LIMS Access Point GTP

Application





Utimaco LIMS Access Point DPI

Deep-Packet Inspection for Lawful Interception and Data Retention

Protocols

- Signature-based detection of hundreds of protocols and applications
- Full decoding of various protocols and real-time interception of application data
- Correlation of data between flows and protocol layers
- Automatic decapsulation of tunnelling protocols
- TCP/IP reassembly
- Flow buffering in memory
- Detection of encrypted protocols

Data Retention

- Real-time metadata extraction of various protocols
- Correlation of metadata from different protocol layers
- Central collection by Utimaco
- Data Retention Suite (DRS)

Lawful Interception

- Target-based interception of IP data and application data
 - IP address, IP address range, port number
 - MAC address, MPLS label, VLAN tag
 - E-Mail address
 - SIP-URI, TEL-URL
 - IMSI, IMEI, MSISDN
 - Application user ID
 - URL
 - Keywords incl. wildcards
 - Standards-based delivery (with Utimaco LIMS)

Standards

- ETSI TS 102 232-1/2/4/5
- 3GPP TS 33.108

Protocol signatures

- Networking IPv4, IPv6, IPsec, SSH, UDP, TCP, FTP, GRE, GTP, MPLS, L2TP, PPPoE, PPTP
- **Authentication:** RADIUS, DHCP
- **VoIP:** SIP, RTP, H.323, MGCP
- **E-Mail:** SMTP, POP3, IMAP4
- **Web:** http, https, google, youtube
- **Webmail:** gmail, hotmail, mailru, maktoob, yahoo, owa
- Messaging, Social Networks AIM, blackberry, ICQ, IRC, facebook, linkedin, myspace, paltalk, skype, viber, XMPP, yahoo
- **Peer-to-Peer:** bittorrent, edonkey, gnutella, fring, kazaa, QQ, tor

more protocol signatures and decoders on request ...

Model	Hardware	Speed
LIMS Access Point DPI-1G	Dell R720, 1-2 x 8core CPU, 16-32GB RAM, 4x1G monitoring ports (SFP)	up to 4 Gbps
LIMS Access Point DPI-10G	Dell R820, 2-4 x 8core CPU, 128-196GB RAM, 2-4x10G monitoring ports (SFP+)	up to 20 Gbps

optional network taps, media converters and aggregators provided on request

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Since 1994 Utimaco has been developing lawful interception and data retention systems for telecom operators and Internet service providers. Utimaco's carrier-grade systems enable real-time monitoring and long term data retention in public telecommunication networks. The systems interface with essentially all common network technologies and communications services. Utimaco is the preferred partner of many of the world's leading network equipment vendors. With around 300 installations in over 90 countries, Utimaco is a leading global supplier in the Lawful Interception and Data Retention market. Utimaco participates in LI standardization and supports international standardization institutes and industry associations, such as, ETSI, 3GPP, ANSI/ATIS and Bitkom.

Customers and partners value the reliability and long-term investment security of the Utimaco security solutions. Utimaco stands for recognized product quality, user-friendly software, excellent support, and products that effectively meet market requirements.

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