

Utimaco LIMS™

Lawful Interception of Telecommunication Services



Lawful Interception of Telecommunication Services

Throughout the world providers of telecommunication services are required to support law enforcement agencies in their fight against crime and terrorism. Network operators and telecommunication service providers have to install interception facilities in their network to fulfil these obligations. The legal framework of lawful interception (LI) is defined by national laws and regulations, the technical details are defined by a number of international technical standards.

Utimaco **LIMS** (Lawful Interception Management System) is a proven solution for network operators and service providers to automate the administrative and operative tasks related to lawful interception. The system is based on a central management platform for the surveillance of communication services and implements electronic interfaces to various authorized law enforcement agencies and their monitoring centers.

Utimaco **LIMS** offers the industry's broadest range of supported network elements for active interception as well as highspeed network probes for passive interception. This approach enables lawful interception in virtually any fixed, mobile, and Internet service provider's environment without any negative impact on the performance and reliability of the network and revenue generating services. Communication services supported include telephony, fax, SMS, MMS, e-mail, voicemail, VoIP, webmail and instant messaging as well as other Internet services. While the system is designed for large-scale networks with millions of subscribers, the **LIMS** suite easily scales to economically feasible solutions for networks with only a few thousand users. The modular architecture of **LIMS** facilitates cost-effective extension and adaptation to new technologies and regulatory requirements.

LIMS complies with international LI standards of ETSI, 3GPP, ATIS/ANSI and CableLabs and satisfies the highest security requirements to protect the privacy of all associated data. Utimaco supports providers, carriers, and LEAs in need of lawful interception solutions with consulting and technical support services, and also provides managed service models together with qualified solution partners.

About Utimaco

For more than 25 years Utimaco is a leading global provider of data security solutions. Since 1994 Utimaco has been providing lawful interception systems for mobile and fixed network operators and Internet service providers. Utimaco Data Retention Suite was introduced in response to the EU directive 2006/24/EC and at the request of telecom customers for integrated LI and DR solutions. With more than 180 installations in 70 countries, Utimaco is a leading global supplier in the LI market.

While Utimaco data security products are now distributed by Sophos, the business units „Lawful Interception and Monitoring Solutions“ and „Hardware Security Module“ form Utimaco's operating businesses.

Benefits

Compliance

- ◆ Provides surveillance of all common telecommunication services in fixed and mobile networks, incl. telephony, fax, SMS, MMS, Push-to-Talk, Internet, e-mail, VoIP, webmail, instant messaging and others
- ◆ Complies with regulatory requirements in numerous countries worldwide
- ◆ Conforms to international lawful interception standards of ETSI, 3GPP, ATIS/ANSI, CableLabs and others

Cost Efficiency

- ◆ Central management of all intercepts even in heterogeneous networks
- ◆ Modular, scalable architecture for small to very large communication networks
- ◆ Smooth integration into available networks

Reliability

- ◆ Meets highest security demands
- ◆ No negative impact on performance or reliability of networks and services
- ◆ Continuous enhancements support the latest technologies and standards
- ◆ Close cooperation with regulatory authorities and standardization bodies
- ◆ 18 years of experience in lawful interception

utimaco®
a member of the Sophos Group

Networks & Services

- ◆ GSM, GPRS, UMTS, CDMA, CDMA2000, LTE
- ◆ PSTN (Fixed Telephony)
- ◆ xDSL, cable
- ◆ WiMAX, WLAN
- ◆ SMS, MMS, Voicemail
- ◆ PoC (Push-to-Talk over Cellular)
- ◆ Internet Access (IPv4 and IPv6)
- ◆ VoIP (SIP, RTP, H.323, SCCP)
- ◆ E-mail (POP3, SMTP, IMAP, webmail)
- ◆ other IP-based services

Lawful Interception Standards

- ◆ ETSI TS 101 671 (voice), TS 101 331 (generic), ES 201 158 (generic), TS 102 232-1 to 102 232-6 (IP, E-Mail, VoIP)
- ◆ ANSI/ATIS: J-STD-025-B (Voice, CDMA), T1.678 (VoIP), T1.IPNA, T1.IAS (IP), T1.724 (UMTS), T1A-1072 (PoC)
- ◆ 3GPP: TS 33.106, TS 33.107, TS 33.108 (UMTS)
- ◆ PacketCable v1.5 (Cable)

Vendor Interfaces

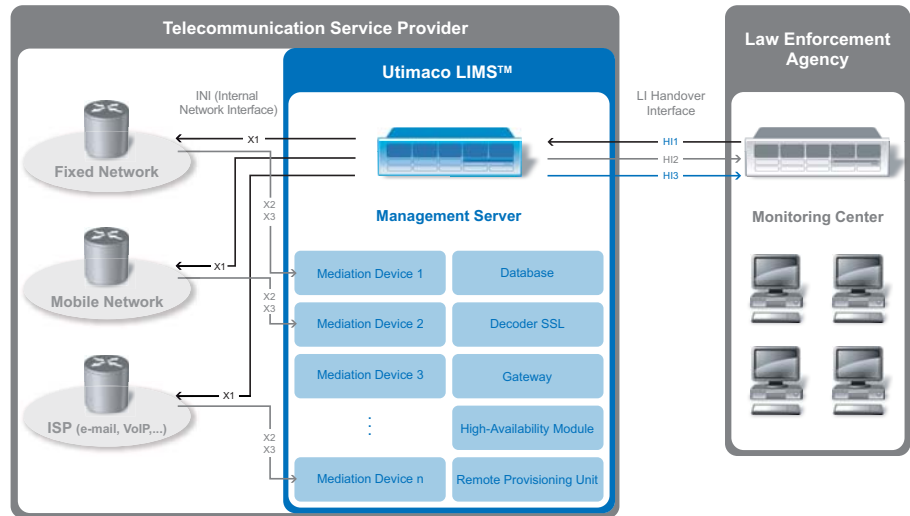
- ◆ Acme Packet, Arris, Bridgewater, Broadsoft, Casa Systems, Cisco, Ericsson, Genband, Huawei, Iptego, Juniper, Motorola, Nokia Siemens Networks, Nortel, Redback, Sitronics, Sonus, Starent Networks, Thomson-Cirpack, Unisys, Vocaltec, ZTE and others

Performance

- ◆ Maximum number of subscribers: virtually unlimited, scalable configurations from 1,000 to several million subscribers
- ◆ Maximum number of interception targets: scalable up to thousands of parallel interception targets
- ◆ Probe performance: up to 10 Gbps per probe

Network Interfaces

- ◆ 10/100/1000 Mb Ethernet, 10 Gb Ethernet, X.25, ISDN, E1/T1, SDH/Sonet, ATM, SS7 interfaces



INI: Internal Network Interface
IRI: Interception Related Information
CC: Content of Communication

x1, x2, x3: Internal Network Interfaces for LI Provisioning, IRI and CC exchange

H1, H2, H3: Standard handover interface to the Law Enforcement Agency for LI Provisioning, IRI and CC exchange

Key Features

- ◆ Central administration of intercepts and target assignments
- ◆ Active and passive interception of voice and data services
- ◆ Collection and mediation of intercepted data from all network nodes
- ◆ Standard compliant delivery of intercepted communications to the appropriate law enforcement agency
- ◆ Comprehensive user management with granular access rights
- ◆ Multi-tenancy, segregates up to 64 different networks/providers
- ◆ Authority management
- ◆ Integrated system administration and alarm monitor
- ◆ Security features
 - RBAC (Role-based Access Control)
 - Transparent separation of multiple authorities
 - Full audit trails of all user and system events
 - IPsec/SSH/TLS encryption
 - Encrypted database and backups
 - System monitor and alarms
 - System redundancy
 - Disaster recovery system
 - Automatic consistency checks
 - Secure remote access
- ◆ Remote administration of other LI systems
- ◆ Dynamic load-balancing
- ◆ Integrated billing capabilities
- ◆ Various language kits available

Copyright Information

Copyright © 1994-2012 – Utimaco Safeware AG - a member of the Sophos group, May 2012

Utimaco LIMS™

Utimaco LIMS is a trademark of Utimaco Safeware AG. All other named trademarks are trademarks of the particular copyright holder. Specifications are subject to change without notice.

www.utmico.com/lims

Utimaco Safeware AG

Germanusstraße 4
52080 Aachen
Germany
Phone +49 (0) 241-16 96-0
li-contact@utmico.com