



## Lawful Interception of Telecommunication Services

Throughout the world providers of telecommunication services are required support law enforcement agencies in their fight against crime and terrorism. Network operators and telecommunication service providers must provide interception capabilities in their network for persons under surveillance. The legal framework of lawful interception (LI) is defined by national laws and regulations and is complemented by various international technical standards.

Utimaco **LIMS** (Lawful Interception Management System) is a proven solution for network operators and service providers for the management of all LI related activities. The system is based on a central management platform for the surveillance of communication services and represents the interface to all authorized law enforcement agencies and their monitoring centers.

Utimaco **LIMS** offers the broadest range of supported network elements which 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. Communication services supported include voice, fax, SMS, MMS, e-mail, voicemail, VoIP, Push-to-Talk, as well as various other Internet services. While the system is designed for large-scale networks with millions of subscribers, the LIMS suite can easily be adapted to provide an economically feasible solution 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.

The design concept of **LIMS** complies with international LI standards of ETSI, 3GPP, ANSI, and PacketCable and satisfies the highest security requirements to protect the privacy of all associated data.

Utimaco supports providers and carriers seeking for lawful interception solutions with consulting and technical support services and also provides managed service models together with qualified solution partners.

## About Utimaco Safeware

Utimaco Safeware develops security Software since 1983. Today, Utimaco is one of the world's leading suppliers of security solutions for protecting data of companies and government bodies. Using the most advanced techniques, Utimaco software provides unmatched information security. Highly reliable, easy to use, and easy to administer, Utimaco products ensure low total cost of ownership. Since 1994 Utimaco develops lawful interception systems for mobile, fixed, and Internet providers. Utimaco LIMS™ is installed and successfully in operation with more than 60 operators in 40 countries.

## Benefits

### Compliance

- Surveillance of all common telecommunication services incl. voice, data, fax, SMS, MMS, Push-to-Talk, e-mail, VoIP in fixed, mobile networks
- Complies with regulatory requirements in numerous countries worldwide
- Conform to international lawful interception standards developed by ETSI, 3GPP, ANSI, PacketCable and others

### Cost Efficiency

- Central management of all interception decisions in the network
- Modular architecture that enables cost-efficient solutions for small and very large communication networks
- Simple integration into available networks
- Almost free of maintenance

### Reliability

- Complies with highest security demands, tamper-proof
- No negative impact on performance or reliability of the network and services
- Continuous extension by newest technologies and standards
- Close cooperation with regulatory authorities and standardization bodies
- More than 12 years of experience in lawful interception

# Key Features / Functionality

## Lawful Interception Standards

- ETSI TS 101 331, ES 201 158, TS 101 671, ES 201 671, TR 102 053, TR 101 943, TR 101 944, TS 102 232, TS 102 233, TS 102 234
- CALEA, ANSI J-STD-025-B, ATIS T1.678
- 3GPP TS 33.106, TS 33.107, TS 33.108
- PacketCable 1.5

## Services

- VoIP (SIP, H.323, RTP)
- GSM, GPRS, UMTS
- CDMA, CDMA2000
- SMS, MMS, Voicemail
- Push-to-Talk over Cellular (PoC)
- PSTN (Fixed Telephony)
- Internet Access (IP)
- E-mail (POP3, SMTP, IMAP)
- other IP-based services

## 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
- Filter performance: up to 200 Mbps per interception access point (E-Mail, VoIP)

## Vendor Interfaces

- Acme Packet, Alcatel, Cisco, Comverse, Ericsson, Huawei, Iptel.org, Juniper, Lucent, Motorola, Nokia, Nortel, Unisys, Siemens, Sun, WaterCove, and others

## Network Interfaces

- 10/100Base-T, 1000Base-T/F, X.25, ISDN, E1/T1, SS7 interfaces

## Security

- Role-based Access Control (RBAC)
- Transparent separation of multiple authorities
- Detailed accounting of all system events and user actions
- IPsec/SSL/TLS encryption
- Encrypted storage, backup
- Mirrored hard disks
- System monitor and alarms
- High-availability module (hot-standby)
- Secure remote access

## Others

- Integrated billing capabilities
- Easy to use graphical user interface
- Network segregation to enable outsourced business models
- Remote administration of other LI systems
- Various language kits

## Contact

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