

Data Sheet

Utimaco LIMS™ Access Point DPI



Deep Packet Inspection

Utimaco LIMS Access Point DPI is a powerful network appliance for real-time monitoring of various Internet applications and protocols. It has been specially designed for lawful interception and data retention purposes.

LIMS Access Point DPI classifies and decodes all kind of network protocols and applications and extracts relevant data such as e-identities, timestamps, network addresses and application identifiers, phone numbers, URLs as well as selected content.

Traditional DPI is limited to capturing on packet level or identifying the application behind an IP flow. In contrast, LIMS Access Point DPI reassembles all TCP/IP flows and decodes application sessions to also extract protocol and application metadata. The Utimaco probe can also correlate flows and sessions between different protocol layers, such as SIP-RTP, RADIUS-IP, GTP-C and GTP-U. This permits a much deeper inspection of real-time network data.

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

- Deep Packet Inspection in fixed and mobile networks
- Real-time Monitoring of IP-based applications & protocols
- Supports more than 1000 protocols and applications
- Target-based interception
- IPDR generation
- Key-word filtering
- 1G and 10G Ethernet ports
- Up to 20 Gbps
- Central management by Utimaco LIMS

Benefits

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

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)

Models

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

Lawful Interception

- Target-based interception of IP data and application data
 - IP address, IP address range, port number
 - MAC address, MPLS label, VLAN tag
 - Email 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
- Email
SMTP, POP3, IMAP4
- Web
http, https, google, youtube
- Webmail
gmail, hotmail, mailru, maktoob, yahoo!mail, owa
- Messaging, Social Networks
AIM, blackberry, ICQ, IRC, facebook, linkedin, mspace, paltalk, skype, viber, XMPP, yahoo
- Peer-to-Peer
bittorrent, edonkey, gnutella, fring, kazaa, QQ, tor

more protocol signatures and decoders 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 250 installations in over 80 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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