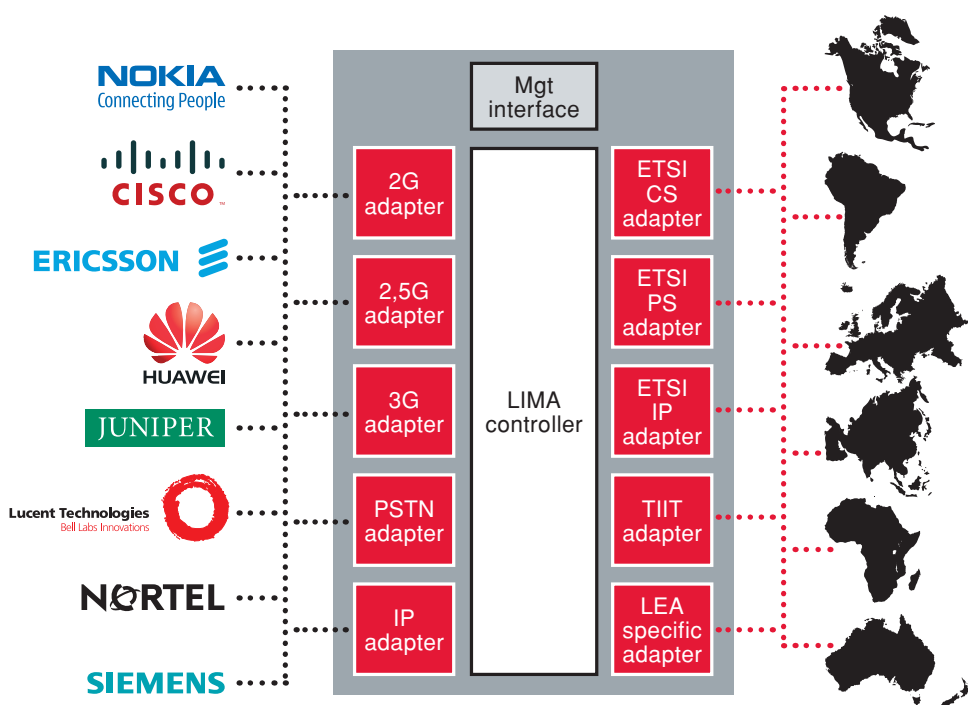


the unique lawful interception mediation solution



lima
lawful interception®

Lima Product Highlights

- Integrated solution that integrates into all types of telecom and IP networks
- Modular architecture for adaptation to local standards.
- Specific support for network equipment of Ericsson, Nokia, Lucent, Nortel, Siemens, Cisco and Juniper.
- Easy to use Management System for interception management and system control

The Group 2000 Lawful Interception Mediation Architecture (LIMA) is a unique modular concept supporting a wide range of circuit switched and packet switched network equipment and many standard and country-specific handover interfaces.

An integrated solution

LIMA is a complete solution for Lawful Interception. It consists of traffic monitors for intercepting traffic, mediators for delivery to the authorities and an integrated management system.

The LIMA management system is used for the administration of interception warrants. It controls the monitors and mediators but also third party network equipment, from a central location.

LIMA mediators are based on adapters that accept intercepted traffic in any format and deliver it according to local standards. This adapter based architecture gives LIMA the flexibility to integrate with any network in any country.

In situations where existing network equipment does not provide any interception capabilities, LIMA monitors can be used to analyse and filter traffic. Monitors are available for IP networks but also for circuit switched voice networks.

ETSI

For Europe, ETSI is standardizing the delivery format of intercepted data. Circuit switched communication is defined in ETSI ES 201 671. For packet switched communications (Internet), ETSI recently released a new set of standards TS 102 232/233/234.

Most European countries adopt the ETSI standards for their national regulations, but at the same time make local choices. This results in country specific standards that deviate from ETSI.

group 2000
we develop telecom solutions

LIMA complies with the ETSI standards for lawful interception while offering flexibility to adopt to local situations. For network integration, interface adapters are available for all types of telecom networks and IP networks. Service specific adapters can be applied to further analyse traffic and deliver it according to service specific requirements, like SIP or E-mail traffic.

Network integration

The most suitable solution for integrating lawful interception into a network, depends on the characteristics of the network itself. Some network equipment has built-in support for some form of lawful interception, where other networks don't have these features at all.

An end-to-end LIMA solution is designed in such a way that existing interception functionality is used if available. In circuit switched telecom networks this can for example be an LI function integrated into the switch that duplicates the voice call and in some cases also provides additional information about the call. In IP networks routers sometimes have similar capabilities.

In situations where this functionality is not available, LIMA IP monitors can be used as front-ends to the LIMA mediators, to monitor and filter traffic. They will extract Intercept Related Information as well as a copy of the content itself. The capacity of these 'sniffer' solutions ranges from network speeds from 100 Mbit/s up to 10's of Gbit/s on copper or fiber networks.

Lima mediators

For each type of switch or network, a specific input adapter can be supported. Input adapters are available

for equipment of Ericsson, Huawei, Lucent, Nokia, Nortel, Siemens, Italtel, Teligent, Juniper and Cisco. Output adapters are coping with the country-specific standards for delivery.

In the Netherlands, for instance, LIMA supports an ETSI-NL output adapter for the Dutch version of the circuit switched ETSI standards and TIIT for the Dutch IP tapping specification.

Multiple input and output adapters can be combined at will to form a solution for the specific situation at hand, even mixing circuit switched and packet switched technology. If required, customer specific input- or output adapters can be developed. As a result, hybrid networks with equipment from different vendors can be supported by a single solution. This modular approach makes LIMA suitable for both simple and complex mediation functions.

The mediators can be configured as a centralized solution, handling all intercepted communications from a single node, or in a distributed configuration where a mediator is located at every site, communicating with each other for synchronisation of delivery of intercepted traffic.

LIMA mediators can easily be extended at any time to cater for growth of traffic volumes or network changes.

Supported specifications

- ETSI ES 201 671 (Telecommunication traffic)
- ETSI TS 102 232 (IP delivery)
- ETSI TS 102 233 (E-mail services)
- ETSI TS 102 234 (Internet access services)
- TIIT (IP delivery in the Netherlands)
- Various local variants



Group 2000 Nederland B.V.

van der Hoopweg 1
P.O. Box 333
7600 AH Almelo
The Netherlands
Tel: +31 (0)546 482 400
Fax: +31 (0)546 482 401
E-mail: info@group2000.nl

Group 2000 AG

Tannagertenstrasse 9
P.O. Box 331
CH-8635 Dürnten
Switzerland
Tel: +41 (0)55 240 74 43
Fax: +41 (0)55 240 86 44
E-mail: info@group2000.nl

O.J. Dahl

Brynsveien 5
P.O. Box 108, Bryn
N-0611 Oslo
Norway
Tel: +47 (0)23 17 3770
Fax: +47 (0)23 17 3771
E-mail: info@group2000.nl

www.group2000.nl | www.group2000.eu

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