



LIMA Lawful Intercept

Robust Compliance Solutions for Telecommunication Operators
All Networks. All Vendors. All Technologies

LIMA Lawful Intercept is G2K's modular and scalable solution for lawful interception that consists of a central LIMA Management System which provides the ADMF function, LIMA Mediator which provides the MDF2 and MDF3 functions, LIMA CC-PAG for cost-optimization by UPF offloading and LIMA passive monitors as required for the network.

Modular Solution

LIMA Management Console

The LIMA Management console is designed to fulfill a central role in our platform. Its scalable design allows it to be deployed in solutions ranging from a self-contained lawful interception solution in a single unit to a distributed system spanning multiple countries and operators. As a user-friendly and field-proven solution, our LIMA Management console supports operators to manage and oversee their active warrants from a central location, regardless of the type and number of networks in which the interception measures are deployed. It protects investments through its modular setup, accommodating network expansion as well as network changes. The LIMA Management system also integrates with existing legacy Lawful Interception solutions and manages these solutions where the LIMA umbrella functions as a centrally managed solution.

LIMA Mediator

Our LIMA Mediator can be integrated with a wide variety of network elements. To accommodate this variety of situations, our LIMA Mediator is designed around the concept of using input adapters that handle intercepted X2 (IRI or CDC) and X3 (CC or CCC) traffic. Input adapters are available for most network equipment commonly found in telecom and ISP networks. This includes adapters for PSTN/ISDN, VoIP/IMS/LTE, E-Mail, fixed IP, mobile IP, including support for the latest generation of 5G X-interfaces. Many adapters have been factory-tested with the network equipment vendors. On the output side, the LIMA Mediator supports all commonly used handover standards, implemented by output adapters. Supported protocols include ETSI TS 102 232, ETSI TS 103 120, ETSI ES 201 671, 3GPP TS 33.108, J-STD-025-B, ATIS T1.678 DSR, ATIS LEAS, Packetcable CBIS. Country specific requirements can be supported also. To control the outbound bandwidth needs in a 5G environment, the LIMA Mediator provides the capability for layer-3 and layer-4 black/white list filtering.

LIMA Monitors

The LIMA IP monitor is a robust, powerful and integrated IP probe which combines multiple IP interception functions in one physical system. The probe is able to intercept and capture all common IP, Email and VoIP traffic. The LIMA IP monitor is truly flexible, powerful and multi-functional whilst combining traffic analysis, interception and mediation in a single box when combined with the LIMA Mediator. The LIMA IP monitor is a passive probe, which can be easily installed in a network. Implementation of the interception solution requires minimal impact and visibility by avoiding integration with existing network elements.

LIMA CC-PAG

CC-PAG or CC Pol Aggregation is an optional component in the 3GPP 5G LI Architecture, but would be beneficial for any carrier requiring a high speed 5G LI architecture. When deploying the LIMA CC-PAG function as a component in high speed 5G LI architecture, carriers will benefit from optimized network connectivity and improved UPF efficiency. Increased UPF efficiency is achieved by offloading specific UPF function to our LIMA CC-PAG, which will reduce the number of required UPF components. Main functions provided by the LIMA CC-PAG function are the aggregation of CC from different CC-POIs towards the MDF3 function of the LIMA Mediator, support for a more efficient X3 transport protocol from CC-POI towards the MDF3 function of the LIMA Mediator, offload encryption from UPF to CC-PAG for X3 traffic.

Key Features

LIMA Management System

- Unified LI Management and control for all types of traffic and networks
- Covers heterogeneous networks, multiple service providers and multiple countries
- Configurable data protection domains and roles
- Interfaces directly to network elements or third party LI equipment
- User friendly web based operator interface
- Provides real-time status overview
- Centralizes operational information like alarms and traffic information
- Management reporting functionality
- Supports large amounts of interception on a single standard 1U x86-based server
- Multi lingual interface
- Purpose-built for regulatory services
- Warrant Management and Workflow features
 - Simplifies the warrant management process
 - Automates interception handling
 - Avoids the demand for highly trained specialists
 - Reduces the risk of costly errors and mistakes
 - Ensures regulatory compliance
- Future proof through its plug-in architecture providing unlimited extensibility
- High availability support
- Automatic integrity-check

LIMA Mediator

- Handles interception events (IRI data or CDC) from a broad range of sources
- Handles intercepted data (CC or CCC) according to a variety of standards and proprietary protocols
- Supports a wide range of handover interfaces
- Supports buffering and archiving for data preservation at connection loss to MC
- IDR records provide an exact audit trail of handled traffic
- Conversion and transcoding for PS ↔ CS translation

Lima Monitor

- Protocol monitors for passive interception of:
 - E-mail (SMTP, POP, IMAP)
 - VoIP (SIP, RTP)
 - IP traffic (IP, DHCP, Radius)
- High performance - Up to 40 Gbps input per 1U x86-based server

LIMA Elite

- Network & technology independent - works with 2G, 3G and 4G networks of all NE vendors
- LEMF independent - Integrates with LEMF Systems
- LI Environment independent - Integrates with LI mediation system
- Supports validation of voice calls, SMS, and mobile data interceptions
- Supports the validation of Metadata and Content interception

LIMA Lawful Intercept

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Picture of the telecommunications apparatus

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We intercept any target in any network

LIMA LAWFUL INTERCEPT

ARCHITECTS IN SAFETY AND INTELLIGENCE

Single Integrated Interception Solution. All networks. All vendors. All technologies.
Cost efficient. Central Management. Multi-country and multi-vendor support.
Workflow Management. Automate warrant management process. Reduce risk of human errors.

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Business process automation for Lawful Intercept and Lawful Disclosure

LIMA WORKFLOW MANAGEMENT

ARCHITECTS IN SAFETY AND INTELLIGENCE

Automates security processes. Improves efficiency and accuracy.
Turnkey solution. Tailored for your specific needs.
Ensures legal compliance. Task completion according to regulations.

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Email entry for sales inquiry

Contact us today to schedule a site survey. You will receive a custom solution matrix from our team of engineering experts.

Request Your Evaluation

