Iskratel Regulatory and Government Solutions

Data-Network Lawful Interception

Why Iskratel?

- Decades of experience
- End-to-end turnkey solutions
- Easily upgradable and extensible to support new protocols and standards
- Investment protection

In a modern world, we exploit high-tech communications to stay connected to the internet at all times from any imaginable place, using services like e-mail or social networks.

Just as we exploit the broad availability and ease of communication, so do the terrorist groups and networks of organised crime: they exchange information over the same data- and voice-communications channels.

A NEED FOR ACTION

Growing concerns over global terrorism, criminal activities or electronic fraud make the ability to catch, isolate, and analyse the related network traffic of great importance. The law-enforcement agencies (LEAs) now require the ability to focus on individual subscribers and to monitor the source of data traffic, its destination, and its contents.

The carriers have no choice but to implement the technology that allows deep inspection, without impacting the performance or integrity of customer traffic.

ISKRATEL'S LI SOLUTION

For lawful interception (LI), Iskratel built a universal, highly flexible traffic-monitoring solution. The solution supports ETSI LI, SORM and country-specific recommendations, and can be used in various IP-based networks, either fixed or mobile, either wired or wireless.

The solution is based on the concept of big-data – a concept that includes tools, processes and methods that any LEA needs in order to handle new traffic types, large amounts of data and storage facilities.

MAIN INGREDIENT: THE MD

The primary building block of the solution is Iskratel Mediation Device (MD). Deep packet inspection (DPI) supports complex traffic classification and decoding of contents. Iskratel MD is compatible with network equipment of different vendors and able to function with various network probes.

An easy-to-use graphical user interface provides users with tools for monitoring the system actions and collecting the monitoring results.

Iskratel MD allows interconnection to multiple LEAs over its northbound LI handover interfaces (like HI interfaces, SORM interface, or secure HTTP interface).

Key features

- Pattern matching and behavioural analysis
- Integrated DPI
- Local storage for lossless high-speed interception
- Passive and active solutions
- Applicable in different network models
- Interconnection to multiple agencies
- Supports multiple users with different authorisations
- Supports ETSI LI, SORM2, SORM3
- Adaptable to support other standards
- Secure and encrypted data exchange prevents data leaks and unauthorised use

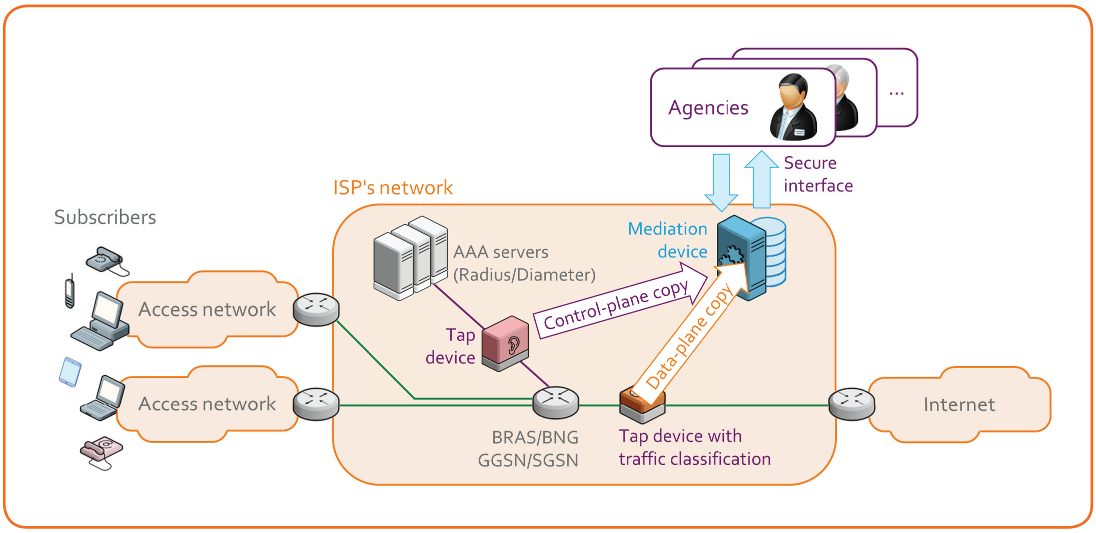
FUNCTIONALITIES OF MD

Iskratel MD provides three functional layers necessary for efficient lawful interception.

- **Administration function** enables users to control the system, set up interception rules, and manage LI requests;
- **Mediation function** executes the LI requests and communicates with interception probes (taps);
- **Presentation function** analyses the intercepted traffic and presents the results of analysis to the LEAs.

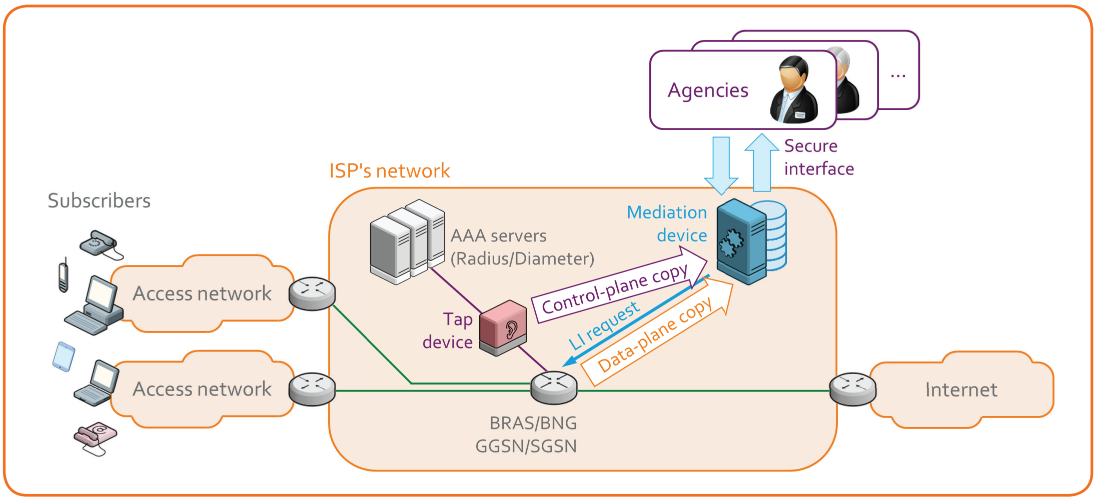
PASSIVE LI APPROACH

The passive LI approach uses an overlay infrastructure (using taps) for control-and data-plane traffic replication. The intercepted traffic is forwarded for content processing to the mediation device.



ACTIVE LI APPROACH

The active LI approach involves target traffic filtering and replication at core or edge routers in the operator’s network. This approach enables filtering and replication on any router interface, and is applicable for any encapsulation.



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