mTrail

For off-the-air interception of mobile communication

GSM communication stands at the center of today's communication, transmitting vital - and often highly sensitive - information while simultaneously connecting users to essential resources. The dependence on GSM is growing rapidly, paralleled by unlawful communication and which is largely a safe media for criminals to organize and operate global terror networks. Law Enforcement Agencies across the world are scouting for solutions to intercept GSM communication for acquiring evidence to prevent such criminal behavior.

Solutions deployed in the mobile operator's networks to intercept such communications are costly, resource consuming and don't provide the flexibility of intelligence gathering operations. What is ideally required is a portable GSM Lawful interception solution that provides the following benefits to the LEA:

-   Stealth mode operation, transparent to target
-   Rapid Intelligence gathering in the field
-   Small portable footprint
-   No assistance or information required from the Mobile Operator

mTrail offers passive and active 'off the air' lawful Interception of GSM 900/ 1800/1900 Mhz phone calls and data to meet law enforcement surveillance and investigation requirements.

Dual Mode Interception

ClearTrail offers Active and Passive off-the-air interception systems. In the latter, it works in the stealth mode so that neither there is dependence on the network operator nor the user(s) would come to know about the interception.

Scalability

The system is able to support multiple bands (900/1800/1900 Mhz) by adding appropriate modules. The system has the capability to scale from interception of 2 channels (carrier frequencies) to 32 channels.

Mobile or Fix mode of Deployment

mTrail offers two modes of deployment - mobile and fixed. In the mobile mode the system is able to fit into a rugged briefcase. In the fixed mode, the system fits in a rack-mount industrial grade chassis.

Target Selection

The target(s) can be profiled using signal strength, target numbers like IMSI,TIMSI, IMEI or MSI SDN.

Call Listening & Storing

mTrail makes it possible to listen to the conversation on lawfully intercepted calls in near-real time, as well as store all lawfully intercepted calls. In case of interception of multiple calls one can select the call to listen to.

Highlights

- Off-The-Air real time monitoring of A 5.0/A 5.1(few variants) and A 5.2 encryption methods
- Configurable to randomly intercept all calls in duplex mode / simplex mode
- Intercepts calls based on incoming or outgoing PLMN Numbers
- Intercept targeted calls from pre defined suspect list
- Identifies various operator signals with their base station & network identification
- Allows manual allocation of the available receivers to a specific base station
- Allows dropping of an ongoing call to free occupied channel & allocate the same to next call
- Intercepts targeted calls made within specified distance

- Customizable to operate in restricted mode to prevent any unauthorized interception by end user
- Monitors Voice & SMS and protocol information
- Calls can be tracked after cell handover procedure
- Duplex channels can intercept both uplink & downlink mobile conversations, SMS and protocol info
- Customizable to operate in distributed manner, facilitating simultaneous remote monitoring of multiple interception units deployed in the field through a single interface
- Supports target's location identification

ClearTrail ❯
Empowering Intelligence

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