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Vehicular Active Interception System



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Vehicular Active Interception System



Figure 1 Appearance of system (including stand and shock-absorbing box)

Figure 2 Vehicle Application

Introduction:

Vehicular active interception system is a vehicular solution that focus on voice & SMS interception and Location for target mobile phone under LTE/WCDMA/GSM network. This solution adopts the vehicle-mounted form and active working mode.

When the target mobile phone is captured and registered to the system successfully, the system can be used to play role as Man-in-Middle and intercept communication content, call and SMS, of specified target. In addition, with individual positioning device, the precise positioning of the target can be implemented.

Unlike traditional active interception system, our system adopts network migration technology instead of jammer to force specified target degrade from LTE/WCDMA to GSM network. The network migration mechanism will affect only the target without disabling surrounding LTE/WCDMA network.

In addition to interception and locating, the system also provides other functions under the telecom carrier's network including IMSI catching, target MSISDN acquisition, black/white list control, forged call/SMS and other analysis features.

Features:

- Support simultaneous operation under LTE/WCDMA/GSM telecom carrier network.
- Support working under the network with A5/0, A5/1, A5/2, A5/3 (excluding mandatory A53).
- Real time verification and KC evaluation for selected targets.
- Records voice sessions, SMS messages and call related information of selected targets.
- Quickly detects mobile phone's location within the working area.
- Supports the Successive Approximation Positioning (SAP).
- Selective block for registered mobile phones.
- IMSI/IMEI identities capture and collection.
- Support target's MSISDN acquisition.

Applications:

- **Real-time Interception**

For the mobile phone target under the network of LTE/WCDMA/GSM, it can be migrated to the GSM network, and the voice and SMS can be intercepted in real time. In addition, the intercepted SMS can be tampered and transfer to the target. It can also be disguised as the target to send SMS and call.



Figure 3 Real-time interception

- **Communication Block**

At the scene of a mass incident, the LTE/WCDMA/GSM blocking mode can be activated, so that on-site mobile phone users cannot communicate. For individual targets, selective blocking mode can be activated to prevent specific target.



Figure 3 Communication block

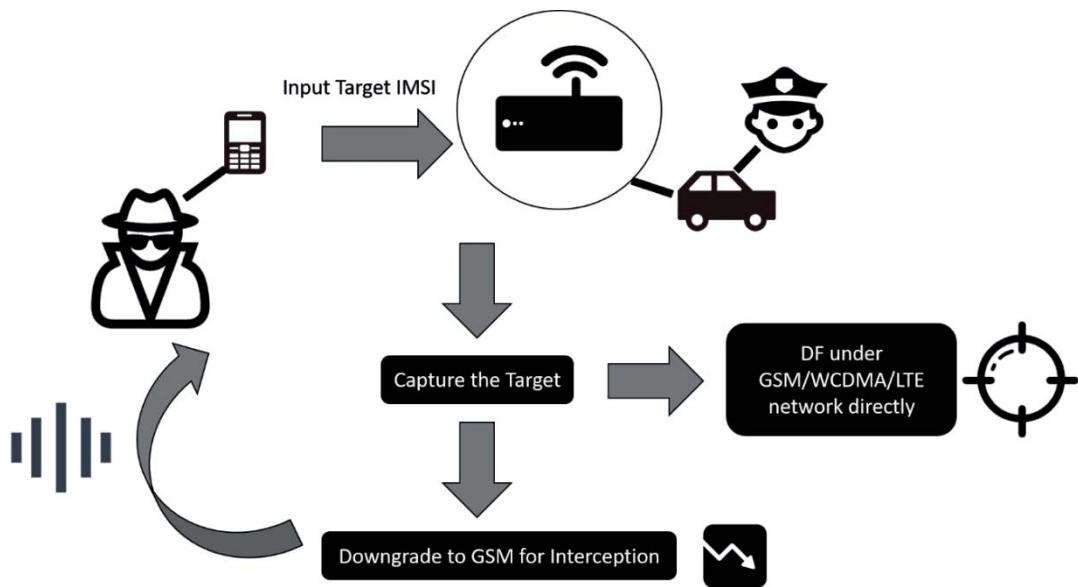
- **Positioning and capture**

For the target of LTE/WCDMA/GSM mobile phones, the target signal can be locked within the coverage area. The hand-held individual device can be used to perform approach Successive Approximation Positioning (SAP) with the accuracy less than 1 meter.



Figure 4 Positioning & capture

Application Diagram



Technical Specifications

Items	Specifications
Support Network	LTE-TDD/LTE-FDD/WCDMA/GSM
Support Frequency Band	GSM:B3(900M)/B8(1800M) WCDMA: B1(2100M) LTE: B1/B3/B5/ B8 /B34/B38/B39/B40
Support Carrier Number	LTE:8; WCDMA:1; GSM:2; Extendable to Max 11 carriers
Number of Concurrent Interceptions	≤ 4 (Voice & SMS interception)
Receiving Sensitivity	GSM:-110dbm;LTE:-100dbm;WCDMA: -118dbm
Transmitting Power	LTE: Single carrier 0~40w adjustable; WCDMA: single carrier 0~40w adjustable GSM: single carrier 0~40w adjustable
Peak IMSI Catching Rate	LTE: ≥1,000 /carrier/per minute; GSM: ≥800 /carrier/per minute; WCDMA: ≥800 /carrier/per minute;
Key Cracking Performance	KC cracking number: >200 in the typical signal environment)
Accuracy of Positioning	<1m (Through the Individual Decoder)
Power Supply	AC 220V±10%, 50Hz±5%
Power Consumption	≤1500W
Dimensions (LWH)	500mm*500mm*530mm (shock-absorbing box with standard model) 550mm*550mm*400mm (standard model)
Weight	≤65kg (host weight of standard model) ≤90kg (total weight including stand and shock-absorbing box)
Operating Temperature	-10 ~ +50 °C
Humidity	≤95%
Mounting	Vehicle-mounted or fixed-installation



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