Customer Applications
Integrated GSM and WiFi Interception System
Rev1.01

SHOGHI

Integrated GSM and WiFi Interception System is sophisticated tool equipped with cutting edge technologies to counter the challenges faced by intelligence agencies for monitoring of voice and data from mobile devices. Some of our customers are using this intgrated technology to address some crucial aspect , which they face in the field. In these application notes we have shared some of the applications being currently used by our Intelligence customers . The integrated system as shown in the below pic is deployed in various form factors and being used by many of our customers.

Above is the actual installation in a vehicle for tactical GSM and WiFi Interception, recording and analysis.

Application 1 : Simultaneously Interception of Voice, SMS and Data

In today's digital world, virtually everyone including criminals, terrorists, anti-nationals are using smart phones for voice and data connectivity for their day to communication to talk to counterpart, families, friends etc.. The GSM interception systems for monitoring of voice and SMS are available from various manufactures including us since more than one decade but no one has solution to intercept the data. We are the first company to provide the solution for interception Voice, SMS and Data along with the session related information. The integrated system is equipped with GSM Interception Module and WiFi Interception Module. The GSM interception Module will intercept the Voice and SMS along with call related Information from GSM network, while the WiFi interception system will intercept the data including social media. In this application , the GSM system is used to downgrade or jam the data connectivity of the Mobile device , thus forcing the target to connect to an known wifi network using an alterantive device like a laptop. This way as soon his laptop/computer is connected on the wifi , all his data sessions are intercepted by the wifi intercept module.

Application Areas: Hotels / Officies / Embassies etc.

Application 2 : Interception of Data from mobile device

Due to known technical limitations, the direct interception of data from cellular network is not possible yet by anyone in the world, due to the encryption scheme used in 3G / 4G networks. The integrated system is designed in such a manner that it will selectively jam (or jam all) the mobile phones, which are operating on 3G/4G network in its vicinity and bring them down on EDGE with no data support, result of which target users would like to try alternative method for data connectivity which is WiFi network. When target users will connect on WiFi Network , the WiFi interception module can be used to intercept the data traffic.

This is one of main applications if the intelligence agenices feel that the target will not change the device and will only use his cellphone to connect to wifi network for data transmission or reception.

Application Areas: Hotels / Officies / Embassies / Shopping malls / Airports etc.

Application 3 : Handling of Two Factor Authentication

Now a days, all social networking sites including webmail are offering addition security for its users by providing two step authentication/verification by sending 4 to 6 digit code on the registered mobile number of its user to verify him. The WiFi interception system will intercept, decode and reconstruct the login credentials (ID and Password) of the target, when he is accessing his account. Acquisition of target credentials will allow you to gain the access of target's social media or webmail account only when two step factor authentication is disabled on his account. In case if two step authentication is enabled on the target's social media or webmail account then the two step verification code can be intercepted by the GSM interception module, which will allow you to gain the access of the target's account.
This application provides access to most secure email/ social media sites like facebook. All smart targets are generally using 2 Factor Authentication to have a stronger access control to their web domains.

Application Areas: Hotels / Officies / Embassies / Shopping malls / Airports / cafes etc.

Application 4 : Selective Jamming and Hotspot Creation

This application of the integrated system is very useful to restrict and monitor the data and voice during large gathering against the government, propaganda against the government, protests and riots etc. The integrated system will allow the agencies to jam the mobile phones of the public crowd and leave the riot police phones unjammed in the coverage area of the system . Alternatively it will create a free open WiFi hotspot with any kind of fake name. Since the free WiFi hotspot is the only medium to communicate, so the target users will connect to open network, which is actually routing all the data through the WiFi interception system.

As the target user will be connected to WiFi monitoring module, so their data traffic will be intercepted and reconstrued by the system and will recover all their Username / passwords along with recontructed tweets.

Application Areas: Publice Gatherings / Sensitive locations / Government offices / Protests / Airports etc.