

SGA-AntiSpy

Your subscribers. Your Data. Your decision.

Information is power

Have you ever given a thought about on what principle the system of GSM was built? It was more on the idea of communicating with people, sharing ideas, less about security and the possibility of frauding people. Of course a part of the communication is encrypted, you could say it's secure, no one will get any of the data with intercepting the messages and trying to decipher them. But what if anyone could send a SendRoutingInfoForSM to your network and get your subscriber's IMSI without any problem. And what's more, it is even legal and standardized.



AITIA offers a full palette of anti-frauding devices. We believe the first line of defense should be a monitoring tool to assess the situation. SGA-AntiSpy is capable of sending reports, statistics and alarms about attempts to get your subscriber's data.

Furthermore, active solutions exists against MT and MO SMS fraud and even a generally usable MAP firewall as well. We are eager to develop new methods of protecting the subscribers, your subscribers.

First line of defense

How to protect yourself when you have no idea what fraud incidents are you faced with? SGA-AntiSpy is an ideal choice to assess the situation you are in. Just take the statistics and CDRs it produces, keep an eye on alarms and analyze the results. You can then think further about what defense mechanism you should take. AITIA is here to help you plan the steps to take.

Configuration requirements

SGA-AntiSpy is safe to put in use, as it's only a monitoring tool as it does not contain active elements. You only have to provide a monitoring port of the selected links you want to pay attention to. Our solution works well with commercial 100Mbps - 1Gbps interface cards. It does not require specific hardware components.



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Technical details

SGA-AntiSpy counts and saves all the message dialogues (Invoke and Result) that are specifically aimed to get subscriber data.

The specific dialogues:

- MAP / AnyTimeInterrogation
- MAP / AnyTimeSubscriptionInterrogation
- MAP / AnyTimeModification
- MAP / ProvideSubscriberInfo
- MAP / ProvideSubscriberLocation

The system watches out for the most common ways how other operators may want to bypass your roaming steering device. Typically these "Anti-steering" solutions try to avoid sending UpdateLocation messages the way they should be sent, with E.214 addressing. This way the UpdateLocation messages do not go through your steering mechanism.

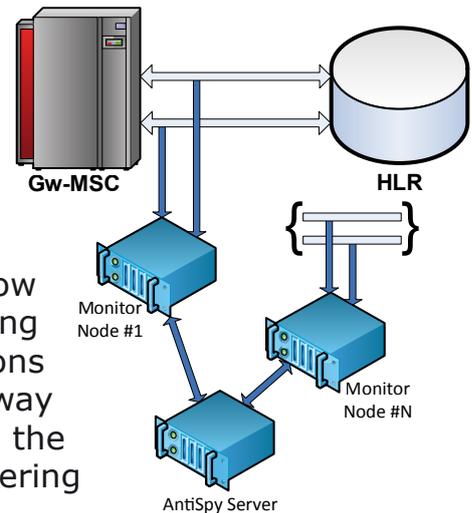
The specific messages:

- MAP / UpdateLocation
- MAP / UpdateGprsLocation

The system checks if the SRIForSM and ForwardSM messages are used correctly. Is there a ForwardSM message after the related SRIForSM? Is there a SRIForSM message before the related ForwardSM? Is it a normal SMS service or the purpose of the messages is to obtain user data?

Related messages:

- MAP / SendRoutingInfoForSM
- MAP / ForwardSM (/MT)



AITIA Telecommunications References



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