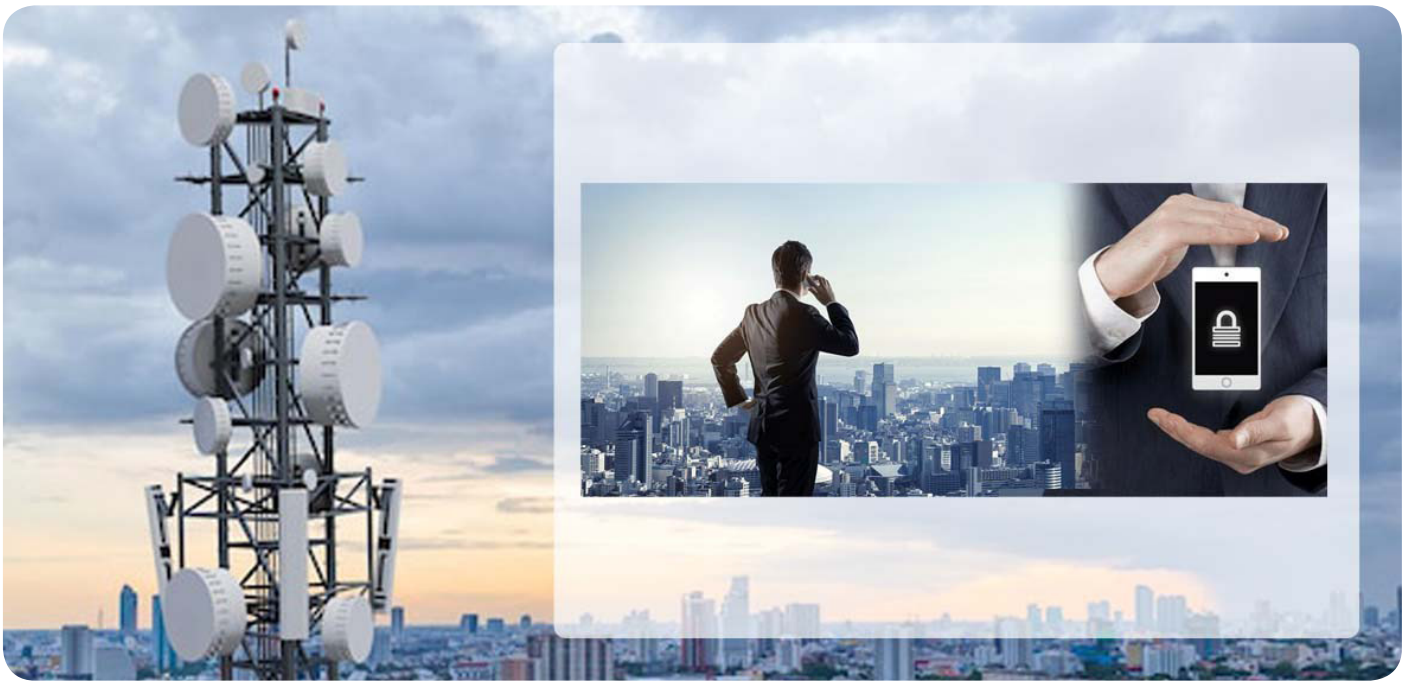
Iran
Communications
Industries



Mobile Network Security

Nowadays mobile networks are the most dynamic part of critical communication infrastructures and the key instrument used to perform daily activities ranging from voice and text messaging to providing signaling for emergency services and critical infrastructure. Regardless of what security assurances mobile network operators provide, there is plenty of hard evidence that in fact shows how vulnerable these systems are. Lately, it seems like a common occurrence when private telephone conversations or pictures of government officials, celebrities and business leaders appear on the Internet, even though these individuals usually take extra precautions when it comes to their personal privacy and safety. In many instances, a common misconception is that security breaches like these are very complicated and expensive to execute and can only be accomplished by high-ranking security intelligence agencies, organized crime or the most sophisticated hackers. This perception is understandable, since most people are trained to view a mobile communication network as a system made up of only the most cutting edge technologies. However, in reality a telecommunications network is a complex system built on subsystems that each have different technological levels, with the security of the whole network usually defined by the security level of the weakest link.

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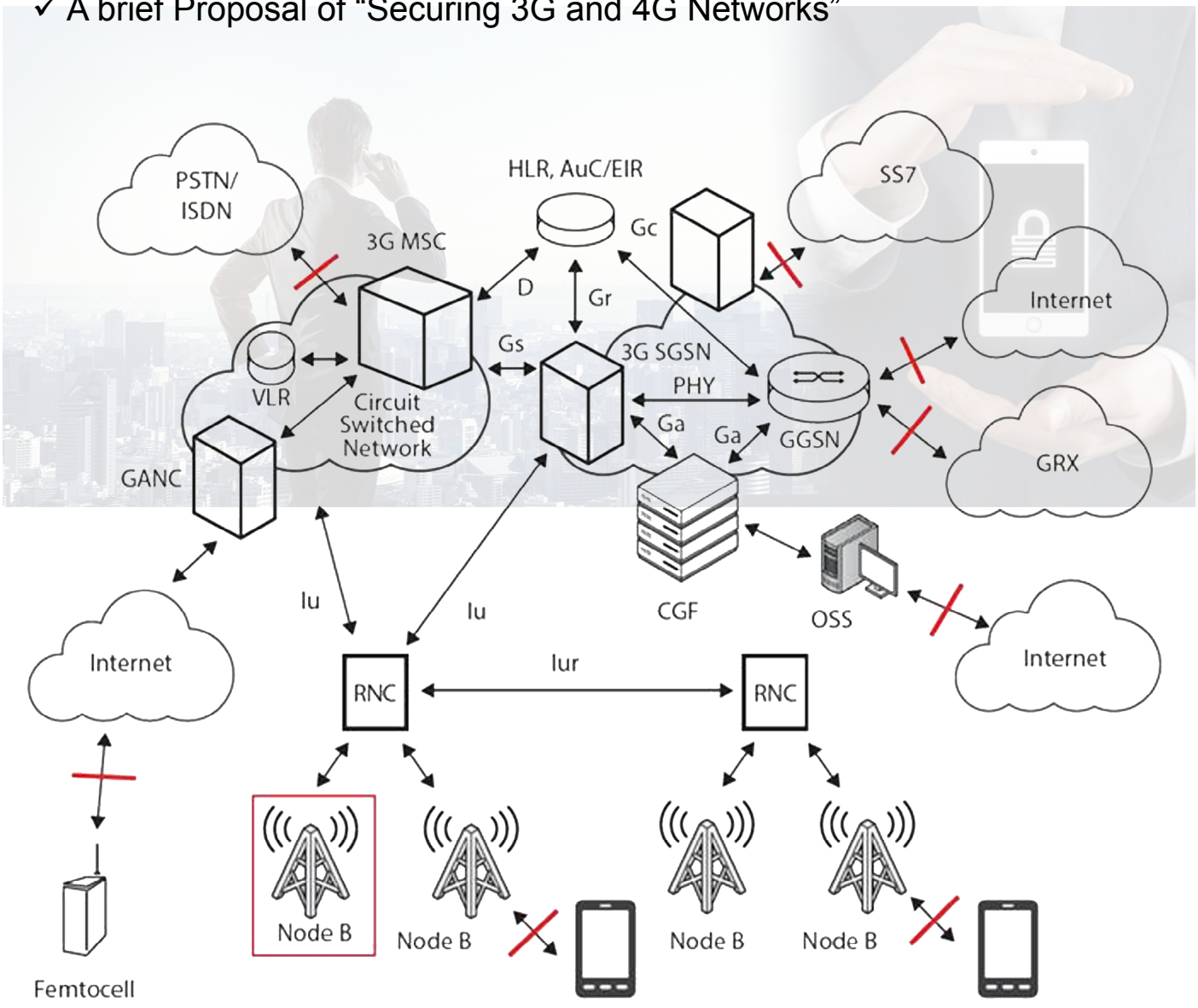
Security Services

✓ Security consulting on 2G (GSM, GPRS, EDGE), 3G (UMTS), 4G (LTA, LTEA) and 5G networks.
✓ Security analysis, evaluation and preparation-testing of mobile networks (RAN, CS-Core, PS-Core, …)
✓ Securing mobile value- added services (VAS)
✓ Consultation/implementing of security maturity models for the mobile network operators
✓ Fraud and anomaly detection services based on user behavioral analysis using our software product
✓ Securing mobile networks based on Big-data approaches
✓ Implementing mobile emergency response teams (MERT) for mobile network operators
✓ Professional trainings and workshops on cellular network security
✓ A brief Proposal of “Securing 3G and 4G Networks”



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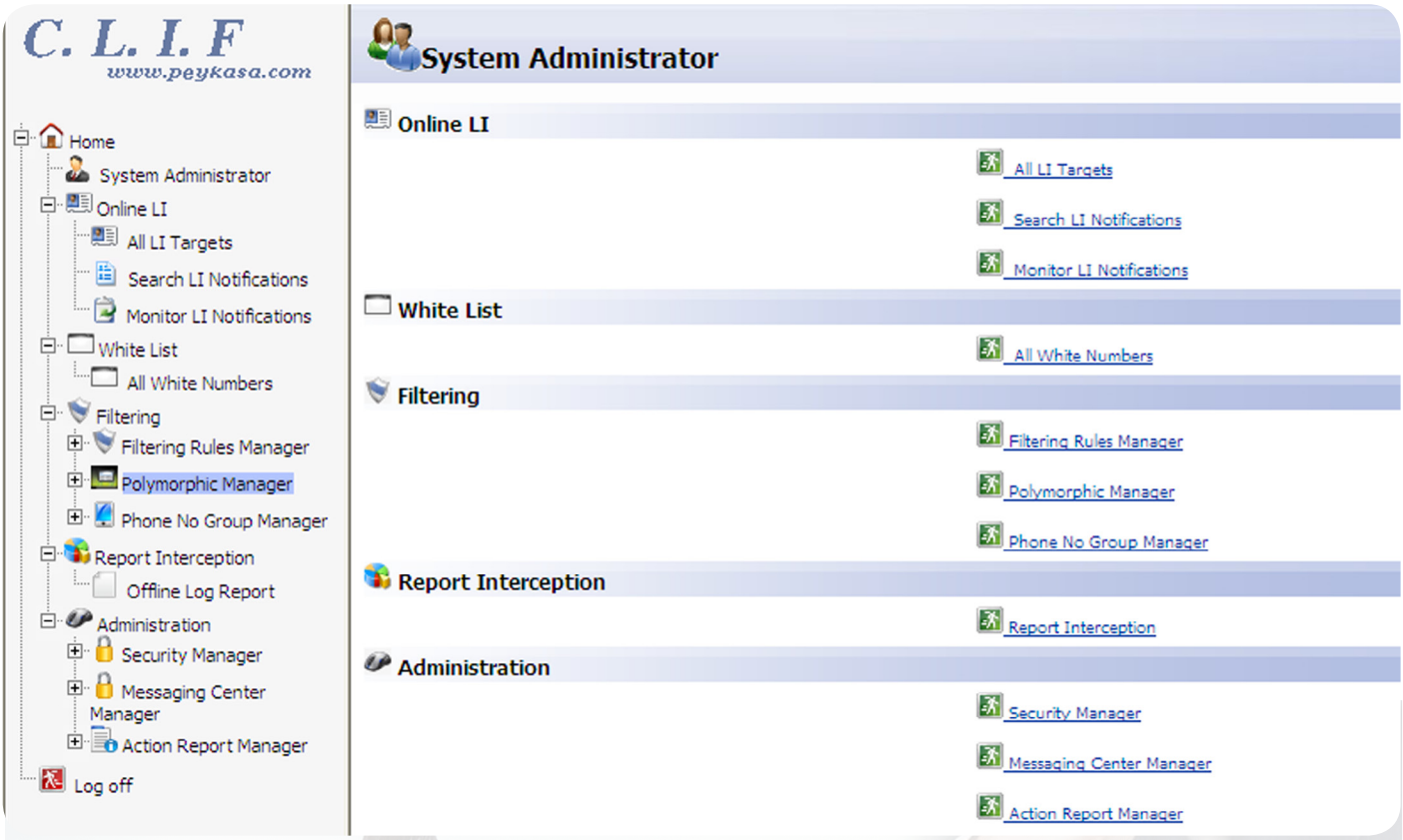
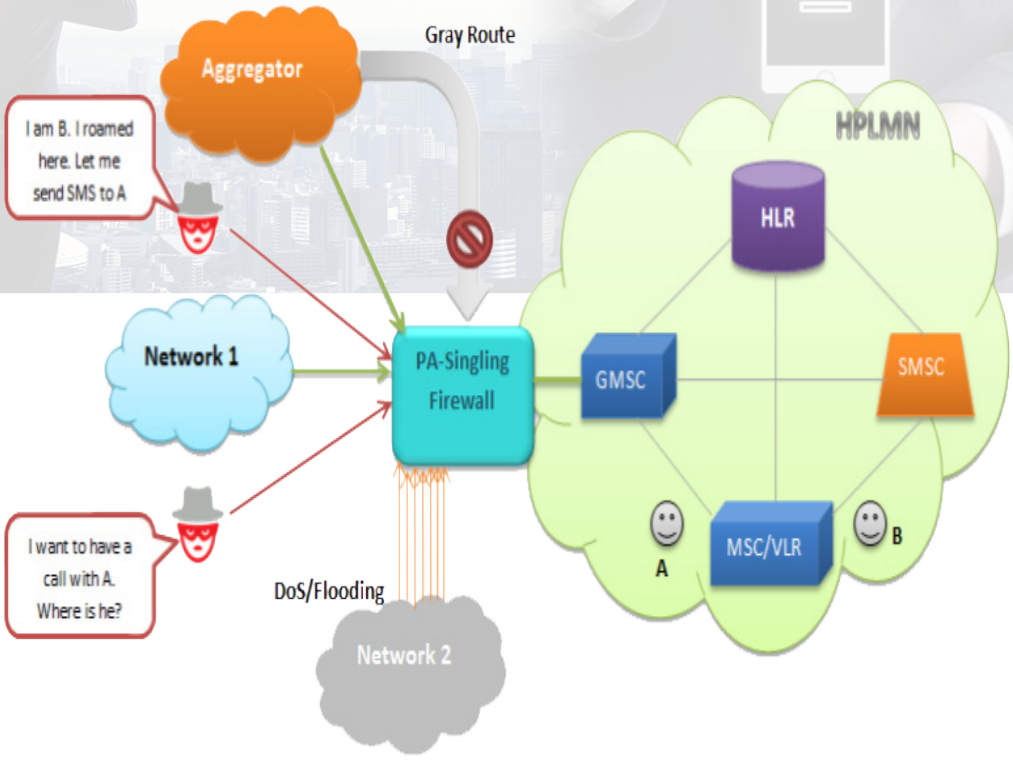
CLIF (Central Lawful Interception & Filtering)



As the name implies using this product you can perform lawful interception of SMSs in Mobile Networks. In addition to interception, you can filter and change messages based on your defined criterias.

- All LI Targets
- White List
- Filtering
- Report Interception
- Administration



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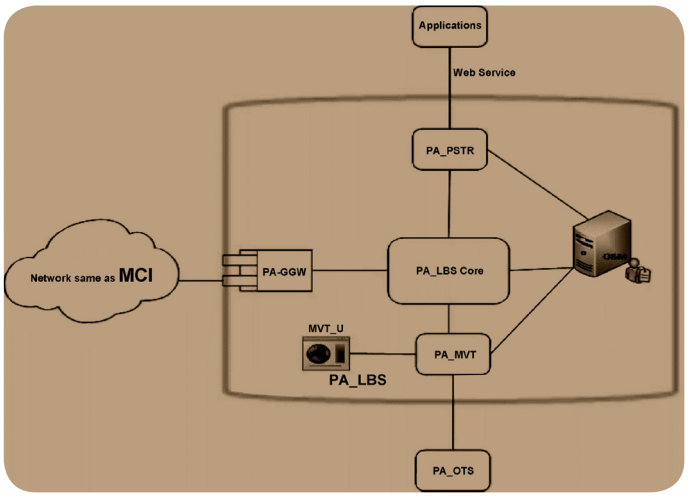
LBS (Location Base System)

- Subscriber tracking
- Send SMS in the specified location
- Change SMS location



OTS (Online Tracking System)

In the GSM network, the task of maintaining location information of subscribers, i.e. LAC and Cell ID, is responsible of HLR and VLR nodes.