

5G Security awareness training

This 5G Security awareness is covering 3 major topics through 6 hours of remote video conference sessions (it can be divided in 1, 2 or 3 sessions).

- **1st topic:** Security Strategies and Policies in a 5G World
- **2nd topic:** Diving into 5G Security
- **3rd topic:** Dealing with Legacy (from 2G to 5G)

1st topic: Security Strategies and Policies in a 5G World

- Situations, Strategies, policies and technologies to address telecom threats
- Telecom Security Strategy: High-Level vision on Security, Impact of governmental and regional policies, Relationships with national organizations and agencies
- Security Ecosystem Stakeholders
 - Telecom merging worlds: Fixed, Mobile & IoT
 - Impacts of IP/IETF within IMS / NGN networks
- Innovative Solutions, Labs projects and Interesting Initiatives
- Evolutions and trends in operator's security and impact to subscribers and enterprises

2nd topic: Diving into 5G Security

- 5G Security architecture overview
- 5G-related specifications and security analysis
- New security features in the 5G System:
 - subscriber's identity protection
 - subscriber's authentication
 - subscriber's traffic protection
 - operator's interconnection protection
- Operators involvement and deployment requirements
- Regulator's role in driving 5G security features deployment

3rd topic: Dealing with Legacy (from 2G to 5G)

- Mobile Security Legacy Overview (SS7/SIGTRAN, Mobile Data / GRX IPX, LTE, OAM...)
- Attack Surface, Threat Modeling, Risk Model, Resulting Security Dynamics (5G NSA, 5G SBA): Security Improvements compared to previous generations
 - 5G Situational Awareness & Roaming Attack Surfaces in 5G SBA
 - Attack surface increase with non-3GPP access
- Threat landscape & Threat Intelligence of Legacy in 5G Networks
- Legacy Compromise examples in 5G Networks: various types of attackers and varying impacts