

## The Critical Importance of Telecom Security Assessments: Safeguarding Networks in an Evolving Landscape

Telecom networks serve as the backbone of the digital economy, facilitating a wide array of communication needs from personal interactions to critical business transactions. In our modern, hyper-connected world, the security of telecommunications infrastructure has become paramount.

### Fast-paced telecom advancements create security threats

The rapid pace of innovation within the telecom industry brings with it significant security challenges. In this dynamic environment, maintaining a static security posture is no longer sufficient. Traditional compliance-based security measures are unable to keep pace with the sophisticated tactics employed by adversaries. As organizations continuously upgrade and evolve their infrastructure to enhance subscriber services, adversaries are equally persistent in exploiting the ensuing vulnerabilities.

### Need for proactive security approach

To effectively combat these evolving threats, a proactive security approach is imperative. This approach goes beyond reactive incident response or mere compliance adherence. Instead, it involves continuously monitoring and assessing the strength of defence systems. Telecom security assessments play a pivotal role in this regard, serving as regular "health checks" for the security landscape. They are essential for ensuring the ongoing strength and resilience of defence systems in the face of ever-changing threats.

**Telecom Security Assessments (TSA) is the first step towards adopting a Proactive Security Approach.**

- **Vulnerability Identification:** Telecom security assessments play a crucial role in identifying vulnerabilities within the infrastructure. These assessments encompass a comprehensive review of each network as a complete system, with unique architectural solutions, protocols, hardware, and software components. By systematically analysing potential weaknesses, organizations can proactively address security gaps before they are exploited by malicious actors.

- **Proactive Risk Management:** With cyberattacks on the rise targeting telecom networks, proactive risk management is essential. TSA enables organizations to identify potential attack vectors and verify threat realization likelihood, which are important inputs for further risk analysis and decision whether and how to implement pre-emptive measures, fortifying defences against adversaries.
- **Beyond Compliance: Addressing Emerging Threats:** Traditional compliance-based measures may overlook the dynamic nature of telecom security threats. Continuous assessments are crucial to promptly identify and remediate vulnerabilities, ensuring robust defence against evolving hackers' tactics, techniques and procedure (TTPs).
- **Dynamic Security Posture via Continuous Improvement:** TSA provides ongoing insights into the security posture of telecom networks, allowing organizations to adapt and strengthen defences in response to evolving threats.

## SecurityGen TSA

SecurityGen offers a comprehensive range of telecom security services aimed at assessing networks, mitigating potential cyber flaws, and enhancing revenue and subscriber trust.

- Our Telecom Security Assessment (TSA) program provides complete visibility into the actual state of signaling protection across **SS7, Diameter, and GTP protocols**. These detailed assessments meticulously highlight potential attack vectors on signalling networks and other associated risks.
- Understanding which attacks are potentially successful is crucial in building a robust management process that effectively handles signalling vulnerabilities, ensuring the safety of both networks and subscribers. Our SecurityGen Telecom Security Assessment (TSA) program serves as the cornerstone in this endeavour.
- SecurityGen TSA is backed by a wealth of experience, including over **300 security assessments** conducted for global Mobile Network Operators (MNOs) and the safeguarding of **700 million subscribers for over 40 global telcos**. Our team of telecom security experts is dedicated to ensuring the resilience and integrity of telecom networks worldwide.

Investing in proactive security measures is not just a best practice but a necessity in safeguarding the critical infrastructure that underpins modern communication. To learn more about our services, please contact us at [contact@secgen.com](mailto:contact@secgen.com)

### About SecurityGen

SecurityGen is a global company focused on telecom security. We deliver a solid security foundation to drive secure telecom digital transformations and ensure safe and robust network operations. Our extensive product and service portfolio provides complete protection against existing and advanced telecom security threats.

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