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# Home base station communication interception

What is strategic cellular interception system?

Stratign's Semi-Active Cellular Interception System can intercept 2G, 3G and 4G communications between the Base Station, and the Mobile Handset using the principle of 'Man-in-the-Middle' and can manipulate the communications.

Can mobile networks detect false base stations?

SA3 has described a solid framework based on this information, enabling mobile networks to reliably detect such false base stations. The framework complements other mechanisms introduced in 5G to protect users against false base stations, for example encrypted long-term identifiers and fresh short-term identifiers.

Does a fake base station make a connection?

In such attacks, the prerequisite is transmission of the signal at a higher strength than a legitimate base station; hence, the base station with higher signal strength is always able to lure the user equipment to connect to it. Previous research also specifically studied the threat impacts after a fake base station makes a connection.

Can a fake base station deprive cellular services from a legitimate base station?

Without our defense scheme, the fake base station can deprive the user equipment of cellular services from the legitimate base station for an indefinitely long time, as we describe in Section 4.1. However, with our scheme implemented, the threat impact is significantly less in time duration.

Pseudo base station (BS) is an illegal radio device that exploits the security vulnerabilities of fifth generation (5G) communications and then implements corresponding ...

Furthermore, our link routing scheme enables the base station to switch in order to restore the connectivity availability and limit the threat impact. We also discuss future ...

In this paper, based on the 3GPP standard, a Precheck Sequence-based Detection (PSD) Scheme is proposed to secure the transition of legal base station (LBS) for UE. This ...

A fake base station is a well-known security issue in mobile networking. The fake base station exploits the vulnerability in the broadcasting message announcing the base ...

SA3 has described a solid framework based on this information, enabling mobile networks to reliably detect such false base stations. The framework complements other ...

Pseudo base station (PBS), sometimes called fake base station, refers to cellular base stations that are employed for malicious and usually illegal purposes. Through the pitfalls ...

Recently, rogue base station (RBS) attack is growing common. A RBS attack occurs when an attacker uses a fake base station (FBS) to mimic a legitimate base station, ...

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