

Abnormal communication between Vox and base station

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In this paper, we present a novel false base station attack detection system, leveraging behavior rule specification-based method tailored to the 5G ecosystem. Our ...

The PNG system enables wireless communication inside and outside the aircraft. The system is very capable due to its robustness, range and noise reduction capabilities, as well as ...

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.

Fake base stations (FBS) -- also known as IMSI catchers and Stingrays -- can identify and track mobile phones and further intercept their communication. They masquerade as a network ...

We present a network-based system for detecting false base stations that operate on any 3GPP radio access technology, without requiring modifications to mobile phones, and that allows ...

These attacks involve malicious actors setting up unauthorized base stations to intercept, manipulate, or degrade communication between legitimate users and network ...

We designed and built a defense scheme which detects and blacklists a fake base station and then, informed by the detection, avoids it through link routing for connectivity ...

To address RBS attacks, it is essential to create a RBS/FBS detection system. In this paper, we proposed three different approaches to detect RBS/FBS, including the user ...

For the first time, we systematically study fake base station attacks and their main influencing factors. We use

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a specification-conform simulation model that lets us analyze fake ...

In this study, we designed and implemented a PBS detecting and tracking system, by conducting topic analysis of messages received by cellphones and analyzing their temporal ...

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