

# Base station communication equipment detection



## Overview

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Detecting these rogue devices in real time is crucial for safeguarding sensitive information and ensuring secure communications. This blog explores various methods and technologies that can be employed to identify rogue base stations effectively. A fake base station can inject and manipulate the radio resource control (RRC) communication protocol to disable the user equipment's connectivity. Since rogue base stations often. Abstract—False Base Station (FBS) attack has been a severe security problem for the cellular network since 2G era. The proposed detection method achieved 95.

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### [Design of Wireless Communication Base Station Monitoring System ...](#)

It is to design a wireless communication base station monitoring system based on artificial intelligence and network security.

### [Anomaly Detection Against Fake Base Station Threats Using ...](#)

In this paper, we design and build an anomaly detection system to detect such active injection threats to the victim user equipment's availability. Our detection scheme implements ...



### [How to Detect Rogue Base Stations in Real Time](#)

Detecting rogue base stations is a complex but essential task in maintaining the security and privacy of mobile communications. By combining technological solutions with proactive ...



### [Gotta Detect 'Em All: Fake Base Station and Multi-Step Attack ...](#)

In this paper, we develop FBSDetector-an effective and efficient detection solution that can reliably detect FB-Ses and MSAs from layer-3 network traces using machine learning (ML) at the user ...



### [SMDFBs: Specification-Based Misbehavior Detection for False Base ...](#)

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 proposed innovative approach ...



### [Rogue Base Station Detection in Industrial Internet of Things](#)

In this study, we aim to identify and address the security threats posed by rogue base stations in the IIoT. Our detection approach is based on reference signal received power (RSRP) analysis, which ...



### [Fake Base Station Detection and Localization in 5G Network](#)

The aim of this study is to mitigate UE attachments against fake base stations through threshold-based detection and localization. The detection results showed low errors in various test ...



### Fake Base Station Detection and Blacklisting

We design and build a detection and blacklisting identification of the fake base station so that the user equipment can avoid the base station and move on to connecting to a legitimate base station for the ...



### Fake Base Station Detection and Blacklisting

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.

### Precheck Sequence Based False Base Station Detection During ...

During handover, the user equipment (UE) periodically receives state information from surrounding base stations (BSs) and uploads it to the source BS. The source BS compares the uploaded signal power ...



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