

Title: Base station communication abnormality

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What happens if a base station is faulty?

The faulty base station establishes a radio connection with the user equipment and releases the connection afterward due to the worst channel conditions. Because our reference values come from the worst channel conditions, the optimal thresholds hence ensure fake base station detection with zero false positives under varying network conditions.

What is a false base station?

Therefore, any base station broadcasting a foreign mobile country code is also a false base station. Similarly, deployment information of its legitimate base stations could be utilized by the network to detect inconsistencies in the measurement reports from devices. One example is to detect invalid identifiers broadcasted by false base stations.

Are measurement reports effective in detecting false base stations?

The measurement reports from devices are very effective in detecting false base stations, as will be described later. Because the measurement reports already exist in all generations of mobile networks to manage device mobility, the detection framework fits seamlessly in all mobile network generations.

Can a network identify false base stations?

For instance, it is common for false base stations to lure devices by transmitting high power radio signals. Therefore, the network could correlate the received-signal strengths from multiple neighboring base stations reported by devices and potentially identify false base stations.

False base stations execute attacks in the Radio Access Network (RAN) of cellular systems, adversely affecting the network or its users. To address this challenge, we propose a behavior rule specification ...

Detecting false base stations in mobile networks - the framework and describes some practical experiments we have performed in our lab

The area served by each base station is called a cell, which is divided into a number of sectors. The cell area is expanded in the order of a base station area, a base station...

We designed and built a defense scheme which detects and blacklists a fake base station and then, informed by

# Base station communication abnormality

the detection, avoids it through link routing for connectivity availability.

Rogue base stations, also known as fake base stations, operate without authorization, often to perform malicious activities. They can disrupt communications, intercept data, or even ...

Device-Assisted Network-Based Detection Device-Assisted Part Network-Based Part Experiments in Our Lab Road Ahead We ran some experiments with a 4G setup in one of our test labs, the Smartphone lab, which we will now describe from a rather technical perspective. The setup, shown in Figure 3, uses base stations of two network generations, 2G base stations called BTS, and 4G base stations called eNB. The purpose is to verify that a 4G network can be used to dete... See more on ericsson Google Patents WO2023132636A1 - Base station for detecting abnormality in cell ... Various embodiments of the present invention provide a device and a method for detecting an abnormality in cell coverage in a wireless communication system.

Various embodiments of the present invention provide a device and a method for detecting an abnormality in cell coverage in a wireless communication system.

Accordingly, an aspect of the disclosure is to provide a device and a method for detecting abnormality of cell coverage in a base station of a wireless communication system.

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 equipment ...

Base station communication is abnormal any help?

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.

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