



EQACC SOLAR

Electronic fraud base station communication equipment



Overview

What is a fake base station?

A malicious or fake base station is a well-known security issue in mobile networking. For example, there are open-source tools and tutorials for setting up fake base stations, e.g., Refs. [1, 2]. The fake base station exploits the radio signal-based base station selection process and the vulnerability in the broadcasting SIB and RRC messages.

Can user equipment evade a fake base station attack after detection?

We also implemented and validated link routing to show that the user equipment can evade a fake base station attack after detection. In the implementation, we showed that our scheme reduces the fake base station availability threat impact from an infinite time duration (without our scheme defense) to only 2.93 s (with our scheme defense).

Can UE attachments be mitigated against fake base stations?

Unfortunately, this scenario opens new security challenge against Fake base station, in which UEs can be at risk when transferred to these base stations. The aim of this study is to mitigate UE attachments against fake base stations through threshold-based detection and localization.

Does our scheme detect a fake base station?

Against a legitimate base station, our scheme correctly does not detect and blacklist the base station. Against a fake base station persistently withholding the connection, our scheme correctly decides that it is a fake base station, and the false-negative rate is zero.

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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 the base ...

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Fake Base Station Detection and Link Routing Defense

Fake base stations comprise a critical security issue in mobile networking. A fake base station exploits vulnerabilities in the broadcast message announcing a base station's ...

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Switzerland and South Korea Investigate Suspected Fake Base Station

The proliferation of SMS blasters worldwide, and this potential new use of a fake base station for fraud in South Korea shows we need to start thinking about improving radio ...

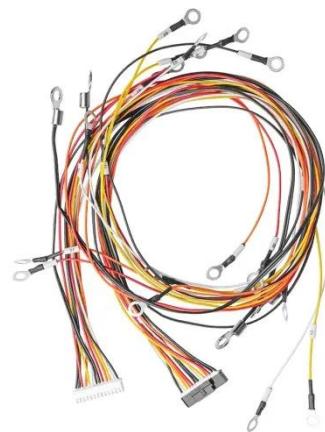
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Fake Base Station Detection and Link Routing Defense

Fake base stations comprise a critical security issue in mobile networking. A fake base station exploits vulnerabilities in the broadcast message announcing a base station's ...

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Energy storage(KWh)
102.4kWh
Nominal voltage(Vdc)
512V
Outdoor All-in-one ESS cabinet



Fake Base Station Detection and Link Routing ...

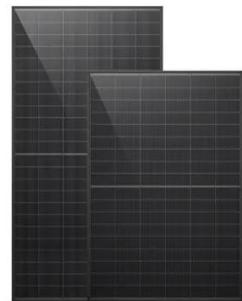
To defend against a Sybil-capable fake base station, we use a history-reputation-based link routing scheme for routing and base station ...

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Detecting and Tracking Pseudo Base Stations in GSM Signal ...

Recent investigation revealed that pseudo base stations were the weapon being used to send such scam messages and illegally collect personal information. Pseudo base ...

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Rogue Base Station Detection: Defending Against Fake Cell ...

Rogue base stations, or fake cell towers, are unauthorized devices that mimic legitimate cellular network towers. These

devices can trick mobile phones into connecting with ...

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Gotta Detect 'Em All: Fake Base Station and Multi-Step ...

Abstract Fake base stations (FBSes) pose a significant security threat by impersonating legitimate base stations (BSes). Though efforts have been made to defeat this ...



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Fake Base Station Detection and Localization in 5G Network

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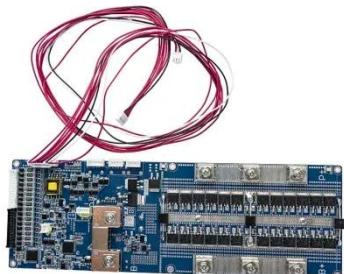
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FBSDetector: Fake Base Station and Multi Step Attack

...

Abstract. Fake base stations (FBSes) pose a significant security threat by impersonating legitimate base stations. Though efforts have been made to defeat this threat, ...

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Fake Base Station Detection and Link Routing Defense

To defend against a Sybil-capable fake base station, we use a history-reputation-based link routing scheme for routing and base station selection.

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Fake Base Stations - Telecom's Open Front Door for Hackers

Fake base stations are a growing threat to telecom users and national security. Here's how hackers deploy them - and how telcos can shut the door.

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Detecting and Tracking Pseudo Base Stations ...

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