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Cyprus Communications 5G Base Station Unaware





Overview

Are false base station attacks a threat to 5G networks?

Abstract: The rapid advancement of 5G networks introduces new security challenges, particularly with the rise of false base station (FBS) attacks. This study investigates the vulnerabilities of 5G networks exploited by FBSs, which hijack communications by mimicking legitimate base stations and compromising user equipment (UE).

Are fake 5G base stations a security risk?

Benefit from features such as high bandwidth and massive machine-type communications, while being able to control their own private 5G networks. But fake base stations used by law enforcement and hackers may collect private information and cause disruptions in cell services, thus compromising the security.

What is a 5G non-public network?

5G Non-Public Networks (also called private mobile networks) are purpose-built, independent networks. In contrast to Public Land Mobile Networks (PLMNs) that offer mobile network services to public subscribers, NPNs are intended for the exclusive use of an enterprise or an organization.

Can 5G networks protect against cyber threats?

This research provides critical insights into securing 5G networks, emphasizing the importance of adaptive defense strategies against evolving cyber threats. The rapid advancement of 5G networks introduces new security challenges, particularly with the rise of false base station (FBS) attacks.



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Fake Base Station Detection and Link Routing Defense

Sep 1, 2024 · 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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5G Near Radio

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Fake Base Station Detection and Localization in 5G ...

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Look Before You Leap: Secure Connection Bootstrapping for 5G Networks

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Look Before You Leap: Secure Connection Bootstrapping ...

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Fake Base Station Threats in 5G Non-Public Networks

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Exposing and Addressing Fake Base Station Vulnerabilities in 5G ...

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particularly with the rise of false base station (FBS) attacks. This study investigates the ...

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