

Mobile base station communication security





Overview

What is a mobile base station?

A mobile base station, also called a base transceiver station (BTS), is a fixed radio transceiver in any mobile communication network or wide area network (WAN). The base station connects mobile devices to the network and routes them to other terminals in the network or to the core network of a mobile operator. Read more [Explore Mobile base](#).

Why is network security important in wireless communication base station monitoring?

With the rapid popularization of the network, under the increasingly complex network security situation and the increasingly prominent network security problems, network security occupies an important field in the wireless communication base station monitoring system, and has become a hot research direction.

What is a base station monitoring system based on?

Research on Wireless Communication Base Station Monitoring System Based on Artificial Intelligence and Network Security 2.1 Research on Key Technologies of Wireless Communication The communication of network is the fundamental of wireless communication .

Are 5G networks vulnerable to fake base station attacks?

Despite their increasing popularity, 5G networks, as defined by the Third Generation Partnership Project (3GPP), have been shown to be vulnerable against fake base station (FBS) attacks. An adversary carrying out an FBS attack emulates a legitimate base station by setting up a rogue base station.



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Secure Location Verification With Hidden and Mobile ...

Jan 15, 2015 · We replace the public and covert base stations with mobile base stations, and we assume that their mutual communication is wireless. Finally we assume that the nodes ...

[2504.02133] Base Station Certificate and Multi-Factor ...

Apr 3, 2025 · Abstract page for arXiv paper 2504.02133: Base Station Certificate and Multi-Factor Authentication for Cellular Radio Control Communication Security

Mobile base station , Application

Explore STMicroelectronics' mobile base station solutions, enhancing connectivity and performance for telecom networks.

Base Station Certificate and Multi-Factor Authentication for ...

Apr 2, 2025 · We design and build a base station certificate (certifying the base station's public key and location) and a multi-factor authentication (making use of the certificate and the ...

BARON: Base-Station Authentication Through ...

Jun 28, 2023 · Fifth-generation (5G) cellular communication networks are being deployed on applications beyond mobile devices, including ...

Design of Wireless Communication Base Station Monitoring ...

Jan 1, 2023 · With the rapid popularization of the network, under the increasingly complex network security situation and the increasingly prominent network security problems, network security ...

Mobile base station , Application

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An Independent UAV-Based Mobile Base ...

Feb 22, 2025 · In disaster scenarios, e.g., earthquakes, tsunamis, and wildfires, communication infrastructure often becomes severely damaged. ...

Communication Base Station Security Features , Huijue ...

With over 7 million communication base stations globally powering our connected world, a critical question emerges: How secure are these critical nodes in our digital infrastructure? Recent ...

BARON: Base-Station Authentication Through Core Network ...

Jun 28, 2023 · Fifth-generation (5G) cellular communication networks are being deployed on



applications beyond mobile devices, including vehicular networks and industry automation. ...

Risk Communication Guide for Mobile Phones and Base ...

Sep 26, 2023 · Communication about the location of base station antennas or use of mobile phones is sometimes characterised by high levels of concern about the subject and very little ...

Base Station Security: Best Practices for Operators

Oct 10, 2025 · The evolving landscape of telecommunications security presents unique challenges for operators managing base station networks. From remote locations to urban ...

An Independent UAV-Based Mobile Base Station

Feb 22, 2025 · In disaster scenarios, e.g., earthquakes, tsunamis, and wildfires, communication infrastructure often becomes severely damaged. To rapidly restore damaged communication ...

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