



BUHLE POWER

# Lilongwe Communications 5g base station signal is unstable





## Overview

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To ensure the timely reliability of the data packets transmitted in the intelligent Internet of Things, many 5 G base stations must be established as relay nodes. Thus, how to meet the transmission requirement.

What are the phases of radio link failure in 5G?

As shown in Figure 1, there are two main phases associated with radio link failure in 5G. Phase 1: The UE enters this phase as soon as a radio issue is detected. This triggers radio link failure detection without UE-based mobility. The UE tries to recover during a time period defined by timer T1.

What causes poor C/I in 5G?

Poor C/I is often due to power-related problems. Radio link failure during handover or cell re-selection: This occurs during the procedures where the UE switches its connection from one cell to another. Figure 1: 5G Radio Link Failure As shown in Figure 1, there are two main phases associated with radio link failure in 5G.

How reliable is a 5G base station?

Currently, the timely reliability is 0.76, which obviously cannot meet the actual transmission requirements. Therefore, it is necessary to consider the timely reliability in the 5 G base station location.

How to solve the 5 G base station optimization location?

To solve the 5 G base station optimization location considering timely reliability, we propose a novel NDPR model considering the signal strength deterioration and the actual data transmission process in wireless sensor networks, which can provide better service qualities for the users.



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### [Evaluating the Comprehensive Performance of 5G Base Station...](#)

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### [Wireless Communication Base Station Location Selection ...](#)

Jun 9, 2024 · 1. Introduction Recently, with the rapid development of wireless communication technology, the enhancement of wireless network performance is concerned with meeting the ...



### [Radio Link Failure Recovery Procedures in 5G NR](#)

Jul 7, 2025 · Radio Link Failure occurs when the User Equipment (UE) cannot maintain a stable communication link with the base station (gNB) due to various reasons such as interference, ...

### **Why Is 5G Unstable?**

Feb 23, 2024 · A 5G repeater is a device that amplifies and extends the 5G signal, helping to improve coverage and stability. By installing a 5G repeater, users can potentially boost their ...



[Phase Noise Model Construction and Denoising Method for ...](#)

Aug 1, 2025 · However, due to the unstable signal output from 5G base station hardware, phase noise arises, leading to frequency or phase shifts in the monitoring signal spectrum.



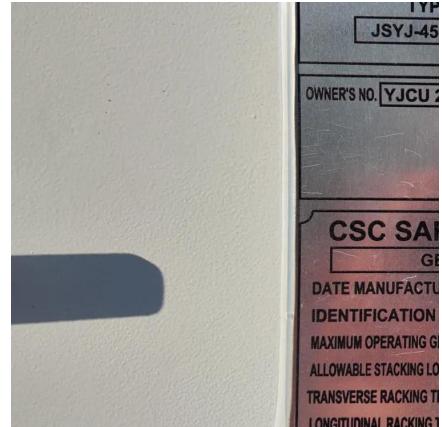
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Oct 16, 2024 · Aiming at the engineering problem that 5G base station antenna is difficult to locate efficiently in complex electromagnetic environment, a two-stage positioning method of 5G base ...



## Root Cause Analysis of 5G Base Station Faults Based on ...

May 11, 2024 · Intelligent fault demarcation and locating technology for 5G base stations is a key technology for intelligent wireless networks. Currently, base station fault analysis relies on ...



## The optimal 5G base station location of the wireless sensor ...

Aug 1, 2023 · After the signal enhancement is completed in the base station, the data packet continues to be transmitted to the processing center. Finally, the data processing center ...



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