

Kongres Container

Base station communication user capacity



Overview

Does base station density affect network capacity?

This means that the network capacity linearly increases with the base station density. However, the result can be achieved under a assumption that every cell has saturated traffic. This is unreasonable as the number of base stations increases; some of the small cells do not even have any user to serve.

Why are base stations important in cellular communication?

Base stations are important in the cellular communication as it facilitate seamless communication between mobile devices and the network communication. The demand for efficient data transmission are increased as we are advancing towards new technologies such as 5G and other data intensive applications.

How does network capacity increase as we install more base stations?

The most improvement of the network capacity has come from reducing the cell size by installing more base stations such as femtocells , . We may have a question, "How much does the network capacity increase as we install more base stations?"

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Why is the number of base stations unreasonable?

This is unreasonable as the number of base stations increases; some of the small cells do not even have any user to serve. Also, even if the user density is sufficiently high for the saturated traffic assumption, each base station can serve only one user in a resource block at a given time, which makes some users be under outage.

What are the properties of a base station?

Here are some essential properties: Capacity: Capacity of a base station is its

capability to handle a given number of simultaneous connections or users.

Coverage Area: The coverage area is a base station is that geographical area within which mobile devices can maintain a stable connection with the base station.

What is the role of a base station in network management?

The base station plays a role in implementing and managing these network slices based on the requirements of different services and applications.

Orchestration: The base station is managed and orchestrated by network management systems that handle tasks such as resource allocation, load balancing, and optimization.

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