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Communication What does 5g base station sharing mean





Overview

What is a 5G base station?

As the world continues its transition into the era of 5G, the demand for faster and more reliable wireless communication is skyrocketing. Central to this transformation are 5G base stations, the backbone of the next-generation network. These base stations are pivotal in delivering the high-speed, low-latency connectivity that 5G promises.

What is network sharing in 5G?

Network sharing in 5G is becoming a popular alternative for mobile operators. If the network sharing is well planned and designed, it can enhance competition between operators and service providers, accelerate the deployment of new technologies, increase coverage, reduce the administrative work and operational costs.

What are the advantages of a 5G base station?

Massive MIMO: The use of a large number of antennas allows the base station to serve multiple users simultaneously by forming multiple beams and spatially multiplexing signals. Modulation Techniques: 5G base stations support advanced modulation schemes, such as 256-QAM (Quadrature Amplitude Modulation), to achieve higher data rates.

Why is core network sharing less common than 5g?

Core network sharing is less common. Even core network sharing would provide further savings, limited possibilities to differentiate services and strategy decrease its attractiveness from operator perspective. 5G networks are expected to incur a higher cost of deployment to meet throughput requirement and demand and to provided sufficient coverage.



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