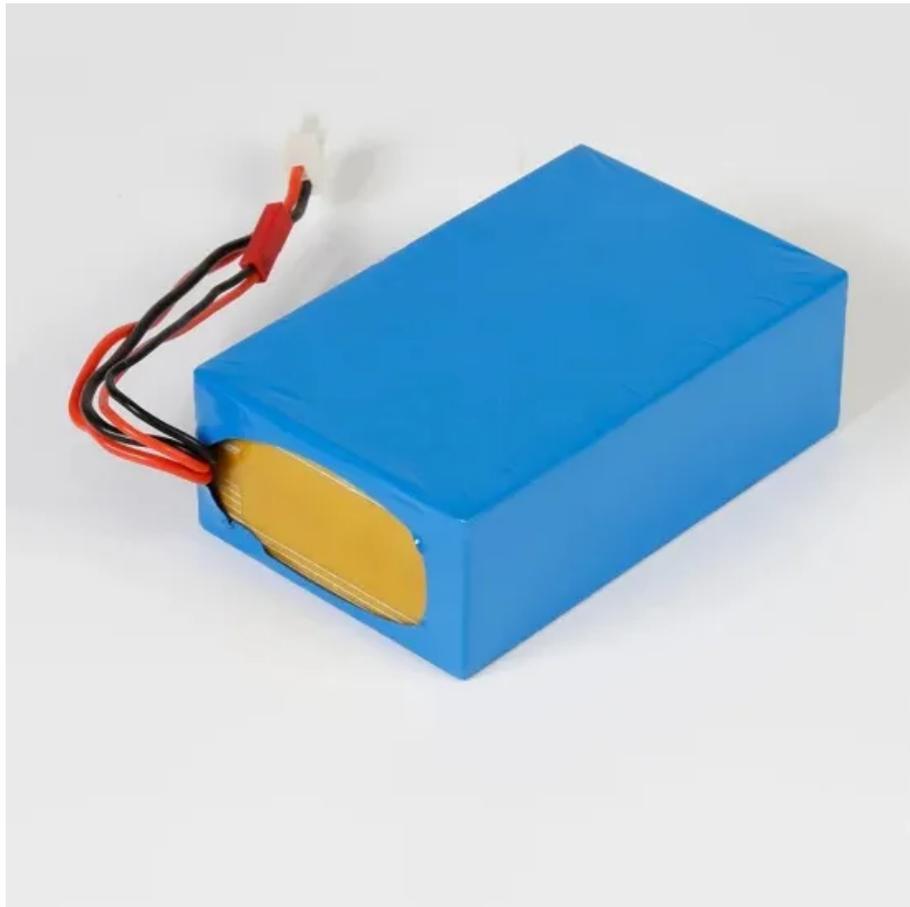


# When two users located under a 4G base station communicate with each other



## Overview

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A cellular network is a network of handheld mobile phones (cell phones) in which each phone communicates with the telephone network by radio waves through a local antenna at a cellular base station (cell site). Describe the purpose of two tunnels in the data plane of the 4G/5G cellular architecture. When a mobile device is attached to its own home network, at which 4G/5G network element (mobile device, base station, HSS, MME, Serving Gateway Router, PDN Gateway Router) does each end of each of the two. any-to-one) and the downlink (one-to-many). Again, this is a consequence of the increase in degree or the. In 5G, base stations are known as gNB, where the “g” stands for next Generation.

## When two users located under a 4G base station communicate with

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### Who Needs Basestations When We Have Sidelinks?

Starting with 4G LTE Advanced, and continuing with 5G, standards have been developed to allow devices to communicate with each other directly (Sidelink or SL), with and without the ...

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## Chapter 2: Architecture -- Private 5G: A Systems

These functions imply a global decision-making process, whereby it's possible to forward traffic to a different base station (or to multiple base stations) in an effort to make efficient use of the radio ...



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### How Mobile Networks Work

It allows for the simultaneous transmission and reception of multiple data streams over the same frequency band, using multiple antennas at both the base station and mobile device.



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## Understand Cellphone Basestation

## Technology » Electronics Notes

Understand the major elements within a cellphone or mobile phone base station, what each element does and how the technology is evolving to provide more flexible operation & better performance.



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## Comp Networks: HW 10 Flashcards , Quizlet

Suppose there are two ISPs providing WiFi access in a particular café, with each ISP operating its own AP and having its own IP address block. Further suppose that by accident, each ISP has configured ...

## 2g 3g 4g architecture with interfaces

Base Transceiver Station (BTS): This is the radio equipment (transceivers and antennas) that communicates directly with mobile handsets. Base Station Controller (BSC): Manages one or ...



## CHAPTER 10 MIMO IV: multiuser communication

Figure 10.4 The two-user uplink with multiple receive antennas at the base-station: performance of orthogonal



multiple access is strictly inferior to the capacity.

## Project Management

Base stations connect among themselves through either guided (wire- or fibre-based), wireless or public switching telephone network (PSTN). Same spectrum used in the adjacent cell but the codes that are ...



## CS260: 7.4-7.7 Flashcards , Quizlet

In each of these sleep modes, will the mobile device remain associated with the same base station between the time it goes to sleep and the time it wakes up and first sends/receives a new datagram?

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