

# D2d communication technology without base station

What technologies use D2D communication?

Common short range wireless technologies that use D2D communication include Wi-Fi Direct, Bluetooth, and LTE Direct. In this technique, the network authorizes the two devices to communicate directly under its control. The network maintains control over devices and can determine traffic routing between direct and network paths.

What is device-to-device communication (D2d)?

Simply put, Device-to-Device communication is the direct communication between devices without traversing a Base Station (BS) or core network. The D2D communication architecture in the 5G network is designed to function in three modes, namely; in-band, out-band, and D2D relay communication (Omar, Razali, and Yasser, 2019).

What is D2D communication in 5G?

5G will not only be an evolution of the current network generation, 5G can be a revolution in the information and communication technology field with innovative network features. D2D communication in 5G refers to a paradigm where devices communicate directly with each other without routing data paths through the network infrastructure. 2.

Can D2D communication be used in a cellular network?

Due to its inherent advantages, the integration of D2D communication in existing cellular networks can play a pivotal role in the evolution of next-generation wireless communication networks (NGWCNs).

As a fundamental component of 6G, Device-to-Device (D2D) communication facilitates direct connections between devices without base stations. In order to support advanced AI ...

Editorial: Device-to-device (D2D) communication technology for fifth generation (5G) mobile networks enables user equipment (UE) to communicate directly with other UEs without or ...

Device-to-Device (D2D) Communication is a technology that allows communication between devices without communication infrastructure such as access points (APs) and base stations (BSs) [4].

ABSTRACT The Device-to-Device (D2D) communication technology in the 5G network is a futuristic design with world-changing potential. Its known applications include; cellular offloading, ...

Device-to-Device (D2D) communication in 5G refers to the capability for mobile devices to communicate directly with each other without the need for an intermediate network infrastructure, ...

By allowing user equipments (UE s) to communicate directly without routing data through the base station (BS), D2D communication can improve spectral efficiency (SE) and energy ...

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D2D communication allows communication between two devices, without the participation of the Base Station (BS), or the evolved NodeB (eNB). Proximate devices can directly communicate ...

Introduction to Device-to-Device (D2D) Communications With the rapid evolution of wireless communication technologies, Device-to-Device (D2D) communication has emerged as a ...

This page covers the advantages and disadvantages of D2D (Device-to-Device) communication used in LTE and 5G NR. It outlines the benefits and challenges associated with this technology. What is D2D ...

In the evolution of Fifth-Generation (5G) oriented wireless communication technology, the conventional wireless communication performance indicators, including network capacity, spectrum ...

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