Direct communication without going through base station

In a conventional cellular system, devices are not allowed to directly communicate with each other in the licensed cellular bandwidth and all communications take place through the base...

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 ...

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, ...

In the future 5G system, it is predicted that network-controlled direct D2D communication offers the opportunity for local management of short-distance communication links and allows ...

What is D2D Communication? D2D communication allows direct communication between two UEs (User Equipments), with or without the network (Access Point (AP) or Base Station (BS)). These devices ...

I am wondering if there is this kind of cell phones that can communicate with each other directly without base station. Broadcasting is enough, no need for point-to-point communication. That is, one cell ...

Standardization Groups For Lte and WLANAdvantages of D2D CommunicationLimitations of D2D CommunicationSecurity ConcernsSignificance in Future ApplicationsComplex algorithms are required to handle devices without interference efficiently. Signal transmission power to a particular device needs to be increased from the base station to overcome surrounding interference. D2D communication is a proximity-based protocol; thus, the distance between devices is limited due to power requirements. Device compat...See more on rfpage .b_imgcap_altitle p strong,.b_imgcap_altitle .b_factrow strong{color:#767676}#b_results .b_imgcap_altitle{line-height:22px}.b_imgcap_altitle{display:flex;flex-direction:row-reverse;gap:var(--mai-smtc-padding-card-default)}.b_imgcap_altitle

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Device-to-Device (D2D) communication in cellular networks is defined as direct communication between two mobile users without traversing the Base Station (BS) or core network.

D2D communication allows devices to communicate directly with each other without routing data through a centralized base station or core network. This architecture is designed to improve network ...

Device-to-Device (D2D) communication in cellular networks is defined as direct communication between two mobile users without traversing the Base Station (BS) or core network. D2D communication is generally non-transparent to the cellular network and it can occur on the cellular frequencies (i.e., inband) or unlicensed spectrum (i.e., outband). In a traditional cellular network, all communications must go through the BS even if communicating pa...

D2D communication allows nearby devices to communicate directly, without going through the BS or core network. This direct link reduces transmission delay, improves SE, and saves energy, ...

Device-to-device communication is an advanced data transmission technology developed to increase the efficiency of the network. In LTE-Direct, D2D communication-enabled devices can ...

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