

Mobile communication without base station

Mikael Asplund, a doctoral candidate in computer science, is now presenting, among other things, a complement to existing communication channels in a crisis. The idea is to use the new generation of ...

Sidelink is a 3rd Generation Partnership Project (3GPP) standardized technology that enables direct user-to-user communications, with or without the assistance of a base station.

Mobile telephony is the provision of wireless telephone services to mobile phones, distinguishing it from fixed-location telephony provided via landline phones.

Overview Impact on society History Cellular systems Usage Tariff models Technologies used Further reading Since the introduction of mobile phones, concerns (both scientific and public) have been raised about the potential health impacts from regular use. However, by 2008, American mobile phones transmitted and received more text messages than phone calls. Numerous studies have reported no significant relationship between mobile phone use and health, but the effect of mobile phone usage on health continues to b...

In a cellular system, as the distributed mobile transceivers move from cell to cell during an ongoing continuous communication, switching from one cell frequency to a different cell frequency is done ...

Learn how mobile communication works, from cell towers to 5G, with this complete technical guide.

Overview Movement from cell to cell and handing over Concept History Cell signal encoding Frequency reuse Directional antennas Broadcast messages and paging In a primitive taxi system, when the taxi moved away from a first tower and closer to a second tower, the taxi driver manually switched from one frequency to another as needed. If communication was interrupted due to a loss of a signal, the taxi driver asked the base station operator to repeat the message on a different frequency. In a cellular system, as the distributed mobile transceivers move from cell to cell during an ongoing co...

To communicate without cell service or internet, you can use two-way radios, such as those operating on GMRS, FRS, or amateur (ham) radio frequencies.

Unlike base stations, which deal with direct communications between mobile devices and towers, Mobile Switching Centers (MSCs) oversee the routing of calls and data over various cellular ...

The new generation of mobile phone technology makes it possible to communicate directly from one telephone to another without having to rely on base stations.

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Mobile cellular networks consist of a Radio Access Network (RAN) and a Mobile Core. As shown in Figure 3, the mobile cellular network consists of two main subsystems: the Radio Access Network ...

The document discusses scenarios for 5G communication without a base station, highlighting Device-to-Device Communication (D2D), Relay Mode, and Private Networks/Ad-Hoc Mesh.

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