



Communication technology without base stations





Overview

Radio links without infrastructure refer to wireless communication systems that establish direct connections between devices or locations without the need for intermediary infrastructure such as cell towers, fiber-optic cables, or satellites.

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When a mobile device communicates in a cellular network, data is typically going in both uplink (UL) and downlink (DL) directions to a transceiver entity generally known as a basestation. Starting with 4G LTE Advanced, and continuing with 5G, standards have been developed to allow devices to.

Ideal for use cases requiring reliability A new non-cellular radio technology aimed at meeting the demands of Internet of Things (IoT) applications for industrial automation, measurement and logistics will be presented in April during the traditional Hannover Messe trade fair, held for decades in.

Mobile telephone base stations and satellite telephones are of major importance, but they have their limitations in terms of cost, construction time, and access on a large scale. Mikael Asplund, a doctoral candidate in computer science, is now presenting, among other things, a complement to.

As satellite direct-to-device services move closer to mainstream adoption, two technology options have emerged within the 3GPP ecosystem. The unmodified 4G approach offers broad compatibility with today's smartphones while the more future-proof non-terrestrial network approach promises optimized.

3 satellites reside in geosynchronous orbit, meaning they appear stationary relative to Earth. This positioning allows them to provide uninterrupted coverage across a vast swathe of the Asia-Pacific region. In a remarkable leap forward for satellite communication technology, Chinese scientists have.

These systems provide a vital solution for enabling communication in remote or underserved areas without relying on existing network infrastructure. In this blog post, we explore how these systems work, their applications, and their benefits.



What Are Radio Links Without Infrastructure?

Radio links.



Communication technology without base stations



Base Stations

The present-day tele-space is incomplete without the base stations as these constitute an important part of the modern-day scheme of wireless communications. They are ...

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Kyocera Corporation (Kyoto, Japan; President: Hideo Tanimoto) today announced that it has officially begun the full-scale ...

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[Who Needs Basestations When We Have ...](#)

Sidelink is a 3rd Generation Partnership Project (3GPP) standardized technology that enables direct user-to-user ...

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In a remarkable leap forward for satellite communication technology, Chinese scientists have achieved a milestone by developing the world's first satellite capable of ...

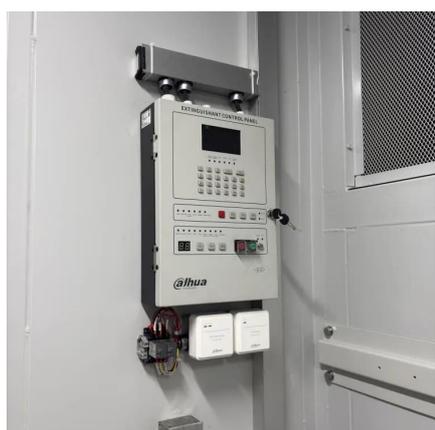
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The document discusses scenarios for 5G communication without a base station, highlighting Device-to-Device Communication (D2D), Relay Mode, and Private Networks/Ad ...

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[Cell Phones without base stations . Engineering News](#)

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 ...

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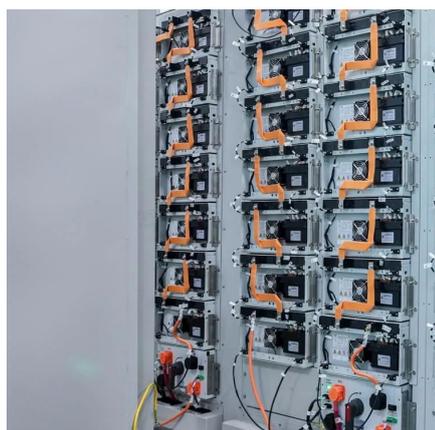


Base Stations



The present-day tele-space is incomplete without the base stations as these constitute an important part of the modern-day scheme ...

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[Mobile telephony without base stations . ScienceDaily](#)

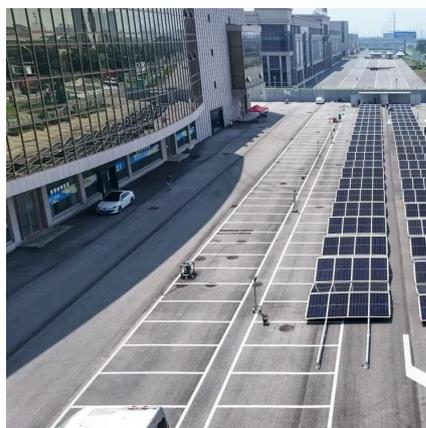
The new generation of mobile phone technology makes it possible to communicate directly from one telephone to another without having to rely on base stations.

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Kyocera Develops AI-Powered 5G Virtualized Base Station For ...

Kyocera Corporation (Kyoto, Japan; President: Hideo Tanimoto) today announced that it has officially begun the full-scale development of an AI-powered 5G virtualized base ...

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[First non-cellular 5G standard for IIoT announced](#)

With these characteristics, it is possible to adopt DECT NR+ to create private 5G networks, without relying on base stations or SIM cards and service subscriptions. These ...

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Who Needs Basestations When We



Have Sidelinks? , IEEE Communications

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.

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[Satellite direct-to-device communication: 4G vs. 3GPP NTN](#)

Satellite direct-to-device communication takes off -- discover two approaches to connecting the unconnected.

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These systems provide a vital solution for enabling communication in remote or underserved areas without relying on existing network infrastructure. In this blog post, we explore how ...

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<https://www.energyinnovationday.pl>

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