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Title: Base station and UE communication process

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Simply put, the BTS is a station capable of transmitting and receiving signals to/from UEs, usually shortened to base station (BS). Any ...

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In the Universal Mobile Telecommunications System (UMTS) and 3GPP Long Term Evolution (LTE), user equipment (UE) is any device used directly by an end-user to communicate. It can be a hand-held telephone, a laptop computer equipped with a mobile broadband adapter, or any other device. It connects to the base station Node B/eNodeB as specified in the ETSI 125/136-series and 3GPP 25/36-series of specifications. It roughly corresponds to the mobile station (MS) in GSM syst...

# Base station and UE communication process

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The present invention relates to the field of mobile communications technologies, and in particular, to a UE management method, a UE, and a base station.

Through clarifying the nuances of 5G UE-BS communication, it helps to enhance comprehension of the technology's possibilities and its revolutionary influence across multiple fields.

Understand the 5G NR initial access (random access) procedure between UE and gNB, including beam management, messages exchanged, and key steps.

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In the world of mobile communication, the interaction between User Equipment (UE) and the Base Stations (eNodeB for LTE and gNodeB for 5G) is fundamental. One critical ...

First, each base station establishes the wireless channel for a subscriber's UE upon power-up or upon handover when the UE is active. This channel is released when the UE remains idle for a ...

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