

Base station wireless communication protocol RRC

RRC stands for Radio Resource Control, and it is a protocol used in wireless communication systems to manage the radio resources between the user equipment (UE) and the ...

The Radio Resource Control (RRC) protocol is used in UMTS, LTE and 5G on the Air interface. It is a layer 3 (Network Layer) protocol used between UE and Base Station. This protocol is specified by 3GPP in TS 25.331 for UMTS, in TS 36.331 for LTE and in TS 38.331 for 5G New Radio. RRC messages are transported via the PDCP-Protocol. The major functions of the RRC protocol include connection establishment and release functions, broa...

Radio Resource Control (RRC) is a critical protocol in wireless communication systems like UMTS, LTE, and 5G. It operates at the network layer (Layer 3) and is responsible for managing the connection ...

The RRC layer operates in the control plane, ensuring efficient utilization of radio resources by allocating frequency, bandwidth, and power for the user equipment. It works with the user plane to ensure data ...

The RRC layer operates in either RRC_IDLE or RRC_CONNECTED states, depending on whether a connection is established. It interacts with the NAS layer and passes instructions down ...

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Radio Resource Control (RRC) is a protocol used in the communication between mobile devices and cellular networks. It manages the setup, maintenance, and release of radio connections.

Among its various functionalities, the RRC Connection Request is a primary step that plays a pivotal role in initiating and maintaining communication. This article delves into how RRC ...

Recent research in RRC focuses on the optimization of user-specific functions in 6G networks, where artificial intelligence is used together with base stations to enable load balancing and small cell ...

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