

Communication with 5g base station





Overview

What is a 5G base station?

At the same time, a large number of 5G base stations (BSs) are connected to distribution networks, which usually involve high power consumption and are equipped with backup energy storage, giving it significant demand response potential.

Are 5G base stations 3GPP compatible?

In conjunction with 5G NR, private base stations (BS) can support connectivity for different spectrum bands (sub-GHz, 1 to 6 GHz, or mmWave). The 5G base station products must pass all of the test requirements prior to their release. Otherwise, the products are not 3GPP-compatible or appropriate to implement in a network.

What is the architecture and coordination optimization model of 5G base station?

The architecture and coordination optimization model composed of a 5G communication network and distribution network is proposed in Section 3. Afterward, a distributed coordination algorithm is designed in Section 4 with simulation results presented in Section 5. Finally, Section 6 concludes the paper. 2. Model of 5G base station.

What is a collaborative optimal operation model of 5G base stations?

Afterward, a collaborative optimal operation model of power distribution and communication networks is designed to fully explore the operation flexibility of 5G base stations, and then an improved distributed algorithm based on the ADMM is developed to achieve the collaborative optimization equilibrium.



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