



EQACC SOLAR

# Co-build 5g network base stations with communications



## Overview

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What is the automatic data configuration model of 5G co-construction and shared base stations?

This paper focuses on the automatic data configuration model of 5G co-construction and shared base stations. By interacting with the core network and wireless network, this model can identify and match different 5G network modes such as SA and NSA (including dual-anchor scenarios and single-anchor scenarios).

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.

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.

What are the key technical solutions for 5G co-construction and sharing networks?

The article focused on several key technical solutions for 5G co-construction and sharing networks, including network architecture, NSA sharing technology solutions, and SA sharing evolution solutions. There were two main 5G shared network solutions, access network sharing and roaming in different networks.

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### Key technologies for 5G co-construction and shared base ...

5G network consumes huge investment cost, including 5G network construction, 5G network operation and maintenance etc. Therefore, China Unicom and China Telecom ...

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## 5G Network Co-build and Co-share -- WSIS Prizes 2023

Carbon emission reduction:China Telecom cooperates closely with China Unicom and China Tower to actively promote the 5G RAN sharing of communication infrastructure ...



### Research on the co-construction and sharing mode of 5G base stations ...

The implementation of co-construction and sharing of 5G base stations in power infrastructure has brought new opportunities for the operation and development of basic power ...

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## Research on the co-construction and sharing mode of 5G base stations ...

A large-scale 5G macro base station network energy management model considering the coordination and optimization of communication and supporting equipment ...



### **Collaborative optimization of distribution network and 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 ...

### **Multi-objective cooperative optimization of ...**

This paper develops a method to consider the multi-objective cooperative optimization operation of 5G communication base stations and Active Distribution Network (ADN) and constructs a ...



### **5G Network Co-Construction and Sharing**

Since 2019, China Telecom and China Unicom have been working on 5G

network co-construction and sharing, with major breakthroughs made in technology development, networking, ...



## Research on Key Technical Solutions for 5G Co-construction ...

Coupled with factors such as the high price of 5G base stations, high power consumption, and difficulty in site selection, it is very meaningful to explore the co-construction ...



## Key technologies for 5G co-construction and shared base ...

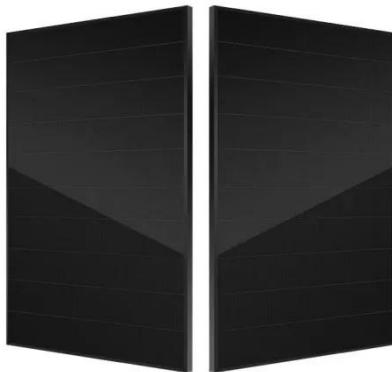
This paper focuses on the automatic data configuration model of 5G co-construction and shared base stations that can identify and match different 5G network modes such as SA and NSA ...

## 5G Network Co-Construction and Sharing Guide Whitepaper

The 5G Network Co-Construction and Sharing Guide Whitepaper provides a comprehensive review of the sharing and co-construction of 5G networks with

entities ...

**LFP12V100**



## **Research on Key Technical Solutions for 5G Co-construction ...**

Single Anchor Implementation of NSA Sharing  
Double Anchors Implementation of NSA Sharing  
Voice Solution of NSA Sharing  
In the single anchor implementation of NSA network sharing, a single-anchor sharing carrier scheme or a single-anchor independent carrier scheme can be configured. The schematic diagram of the single anchor implementation is shown in Fig. 3. In this solution, both the 5G base station and the 4G anchor base station need to be shared, and the 5G base See more on [stet-review \[PDF\]](https://link.springer.com/article/10.1007/s11365-021-02709-1)

## **Multi-objective cooperative optimization of ...**

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