

## Kongres Container

# Can 5G base station communications be interoperable



## Overview

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Is a 5G base station CU/DU interoperable?

Tokyo, December 2, 2021 - NTT DOCOMO, INC. (DOCOMO) and NEC Corporation (NEC) have succeeded in interoperability testing for 5G standalone (SA) using a 5G base station baseband unit (5G CU/DU) conforming to O-RAN open interface specifications and radio units (RUs) of different vendors.

Why do military networks need 5G?

Across all operational domains, it's increasingly necessary to support unified secure and resilient connectivity by enhancing commercial 5G technology for adaptive, interoperable terrestrial and non-terrestrial military networks.

Can 5G be used as a backhaul solution?

The pace and scale of 5G deployment increases the demand for wireless relays as an alternative to fiber backhaul solutions. Lockheed Martin and Radisys are working together to accelerate 5G capabilities into Lockheed Martin's 5G.MIL™ Hybrid Base Station to use within military tactical networks.

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 able to respond to demand?

5G base stations have experienced rapid growth, making their demand response capability non-negligible. However, the collaborative optimization of the distribution network and 5G base stations is challenging due to the complex coupling, competing interests, and information asymmetry among different stakeholders.

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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