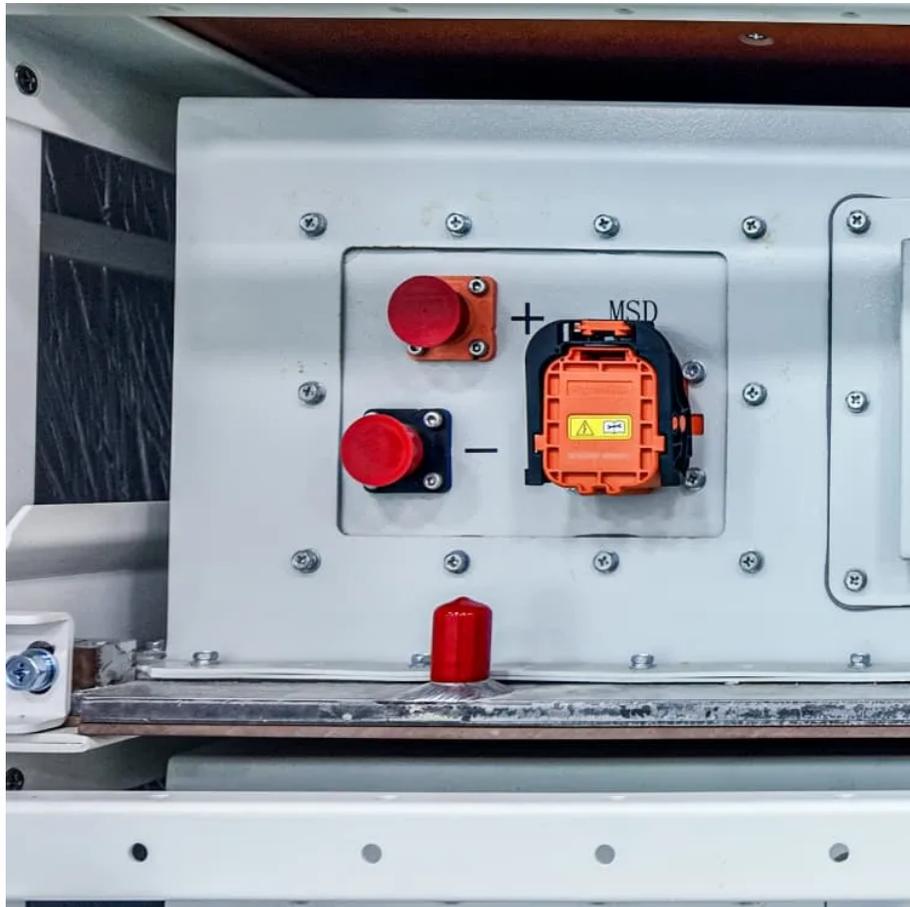


# GIC base station communication





## Overview

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Can integrated sensing & communication (Isac) base stations be used for collaborative sensing?

Abstract: The collaborative sensing of multiple Integrated sensing and communication (ISAC) base stations is one of the important technologies to achieve intelligent transportation. Interference elimination between ISAC base stations is the prerequisite for realizing collaborative sensing.

What is integrated sensing & communication (Isac)?

Conferences > 2022 IEEE 95th Vehicular Tech. The collaborative sensing of multiple Integrated sensing and communication (ISAC) base stations is one of the important technologies to achieve intelligent transportation. Interference elimination between ISAC base stations is the prerequisite for realizing collaborative sensing.

Can multiple Isac base stations communicate and radar sense simultaneously?

Interference elimination between ISAC base stations is the prerequisite for realizing collaborative sensing. In this paper, we focus on the mutual interference elimination problem in collaborative sensing of multiple ISAC base stations that can communicate and radar sense simultaneously by transmitting ISAC signals.

How does Isac-MCs work?

able to disrupt the entire communication network by generating virtual malicious communication nodes. However, in ISAC-MCS, ISAC BSs can not only obtain the digital information of the nodes by means of communication, but also obtain the physical information of the nodes, such as location and velocity, by radar sensing, and then distinguish



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### Base stations

Over large distances, the signals must be relayed by a communication network comprising base stations and often supported by a wired network. The power of a base station varies (typically ...

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### Base Station Deployment Scheme for Low-Altitude

Dec 29, 2024 · Integrated sensing and communication (ISAC) is a key technology of future fifth-generation-advanced (5G-A) and sixth-generation (6G) mobile communication systems. The ...

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### The Positioning of Base Station in Wireless ...

Aug 27, 2017 · A new representation that describes base station placement, transmitted power with real numbers and new genetic operators is proposed and introduced. In addition, this new ...

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### Base Stations

Jul 23, 2025 · Base stations form a key part of modern wireless communication networks because they offer some crucial advantages, such as wide coverage, continuous communications and ...

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### Joint placement and communication optimization of uav base stations ...

Nov 17, 2024 · There has been a recent increase in the studies on integrated sensing and communication (ISAC) technology within unmanned aerial vehicles (UAVs). In our paper, we ...

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### Base station location generation algorithm for ...

Sep 21, 2023 · This article presents a new method for simulating base station (BS) deployment during frequency sharing and coexistence studies between terrestrial and satellite ...

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### Toward Multiple Integrated Sensing and Communication Base Station

Jun 22, 2022 · The collaborative sensing of multiple Integrated sensing and communication (ISAC) base stations is one of the important technologies to achieve intelligent transportation. ...

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### Uplink MIMO Communications With RIS-Integrated Base Station...

Jan 14, 2025 · Reconfigurable intelligent surface (RIS) has gained significant momentum as a cost-effective and energy-efficient technology to enable the next generation of mobile ...

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### Integrated Sensing and Communication enabled Multiple Base Stations

Oct 12, 2023 · Driven by the intelligent applications of sixth-generation (6G) mobile communication systems such as smart city and autonomous driving, which connect the ...

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### Integrated Sensing and Communication enabled ...



Nov 27, 2023 · Driven by the intelligent applications of sixth-generation (6G) mobile communication systems such as smart city and au-tonomous driving, which connect the ...

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