

# Unilateral communication problem of Airbus base station

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Is the Airbus TETRA system scalable?

The Airbus TETRA system is scalable from a local to a nationwide network. Additionally, we offer two choices for easy setup: The TB4, developed through a partnership between Airbus and Nokia, is a hybrid base station that supports both TETRA and 4G/5G technologies.

Why does a UAV-BS need a ground station?

This is because, in both deployment scenarios, the UAV-BS still has to move from one hovering position or one LS to another which also requires communication and control from the ground station. In addition, we assume that the UAV-BS always maintains some amount of energy to reach the required LS.

What is LS approach to UAV-BS deployment?

By adopting the LS approach to UAV-BS deployment, a significant amount of energy can be saved and the service time of the UAV-BS extended because the UAV-BS does not have to continually hover in the air to provide coverage to ground users within a location.

Can unmanned aerial vehicles be used for wireless communications?

Recently, the use of unmanned aerial vehicles (UAVs) for wireless communications has attracted much research attention.

To address the trade-off issue in the performance of multi-base station and multi-UAV communication and localization, research is conducted on the multi-base station carrier ...

The problem was formulated as a circle placement problem, after which a heuristic algorithm was developed to estimate the optimal 3D position that enhances the coverage area ...

It completes the Evercor offering of Airbus Defence and Space and Alcatel-Lucent for mission-critical

broadband, enabling larger data transmission by using existing PMR networks.

TETRA radios can operate in Direct Mode (DMO) without a network, in addition to network mode. This allows professionals to communicate in ...

Some networks can achieve a better balance and distribute radios to use base stations more cleverly. This is possible with a mechanism called ...

TETRA radios can operate in Direct Mode (DMO) without a network, in addition to network mode. This allows professionals to communicate in remote areas, near the edges of network ...

Because the hybrid base station TB4 can handle both 4G/5G and TETRA technology, it is easier and more cost-effective to them in parallel. Highlighting Airbus ecosystem approach.

We analyze the effect of the aerial base station (ABS) height and transmit power on the system's downlink and uplink data rates while accounting for the reciprocal interference ...

Small delays or disturbances can create big problems. Communication and information sharing make decision making easier enabled by apps that range from chat apps to mobile access to ...

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We formulate an optimization problem to satisfy the access quality of service (QoS) requirements. This problem is a mixed-integer nonlinear programming problem. Therefore, we divide it into ...

DRAIMS that began to equip new Airbus aircraft in 2022 has caused at least 10 incidents in two years, French accident investigation bureau (BEA) says.

Some networks can achieve a better balance and distribute radios to use base stations more cleverly. This is possible with a mechanism called load-directed roaming.

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