

Australian communication base station backhaul





Overview

Why do we use satellite for cellular base station backhaul?

Satellite are widely used today for cellular base station backhaul when the distance between the base station equipment and the core of the network is too large for microwave to be economically viable.

Is Eutelsat launching a 'Leo' backhaul in Australia?

Eutelsat Group and Australian carrier Telstra announced the launch of what they claim is the largest rollout of Eutelsat OneWeb Low Earth Orbit (LEO) backhaul in Australia.

Does Telstra use satellite backhaul?

Telstra said the rollout covers hundreds of remote mobile base stations currently served by geostationary satellite backhaul. The carrier will also use OneWeb services for future sites where satellite backhaul is the preferred or “only viable option”.

Why is Telstra deploying a backhaul service?

The backhaul deployment will also help Telstra assess how to deploy OneWeb for regional voice and fixed broadband services. Katinakis said the capability will support the T25 commitment to deliver an additional 100,000 square kilometres of mobile coverage by the end of FY25.

Can OneWeb be used as a backup backhaul solution?

There’s also potential for OneWeb, as a backup backhaul solution, to improve reliability in areas where terrestrial backhaul is susceptible to natural disasters, and where communities find themselves in isolation to have a LEO backhaul that guarantees that level of quality service,” said Iskra Nikolova, Telstra executive for network and technology



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Satellite cellular backhaul

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Telstra signs OneWeb to upgrade remote base station backhaul

Telstra is embarking on a project to swap geostationary satellite backhaul in remote Australia to low-earth orbit satellite (LEO sat) services provided by OneWeb. The ...

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Australian Defence Satellite Communications Station, ...

The Australian Defence Satellite Communications Ground Station is located at Kojarena, 30 km east of Geraldton in Western Australia. In 2024 the ...

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[Wired Access Backhaul vs. Wireless Access ...](#)

In wireless access backhaul, the access points or base stations are connected to the core network wirelessly, usually using microwave, ...



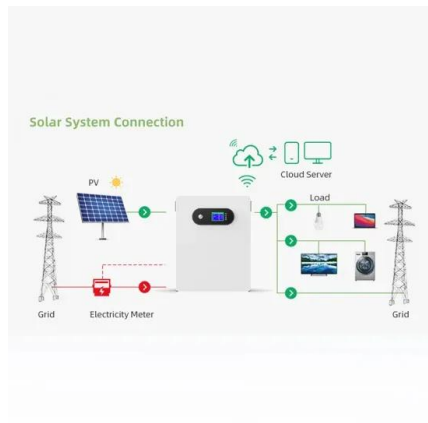
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Telstra signs OneWeb to upgrade remote base station ...

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[Backhaul for remote cellular mobile, Telsoc](#)

This paper proposes that the joint program should commence with a comprehensive financial and technical study of backhaul and base station technology options, to identify the most cost ...

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[Telstra, OneWeb seal satellite backhaul deal](#)

Telstra and OneWeb worked out a commercial agreement to deliver mobile backhaul to remote areas using the satellite operator's low Earth orbit (LEO) network, following ...

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LEO Backhaul Lunched in Australia

More than 300 remote mobile base station sites currently using satellite backhaul will be connected to Eutelsat OneWeb's LEO solution over the next 18 months. The capability ...

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What is a backhaul?

Radio and television broadcasting: The backhaul connects reporters on location with the studio broadcasting the program. Base stations in cellular networks: The backhaul ...

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What are LEO satellites and how do they work?

Outside of internet connectivity for homes, we've also begun using LEO satellites to provide backhaul to remote mobile base stations, improving network responsiveness for ...

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Telstra and Eutelsat Launch Major LEO Satellite Backhaul in ...

Eutelsat Group and Telstra have initiated Australia's largest deployment of Low Earth Orbit (LEO) satellite backhaul, enhancing connectivity for remote mobile users.

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OneWeb's LEO Backhaul Revolutionizes Australian Connectivity

It represents the first satellite backhaul call conducted on a commercial Australian mobile network with guaranteed quality of service.

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Telstra and Eutelsat Launch Major LEO Satellite Backhaul in Australia

News Summary Eutelsat Group and Telstra have initiated Australia's largest deployment of Low Earth Orbit (LEO) satellite backhaul, enhancing connectivity for remote ...

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What is Backbone, Backhaul, Fronthaul and Midhaul?

Backhaul: In contrast, backhaul typically refers to the transport of data traffic between a local access network (such as a cellular tower or Wi-Fi ...

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Integrated Robotic Aerial Base Stations Deployment and Backhaul

...

Nevertheless, this beam transfer can be greatly affected by environmental factors. In this paper, to overcome the backhaul bottleneck and prolong service time, we propose a multi-hop robotic ...

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Satellite cellular backhaul

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Base Station Backhaul Microwave Solution , Huawei Enterprise

Based on leading wireless, transmission, and datacom technologies, Huawei base station backhaul microwave solution provides fiber-level broadband wireless backhaul capabilities, ...

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5G Self Backhaul

Integrated Base Stations: These are specialized base stations designed to handle both access (user device communication) and backhaul (base station-to-base station) ...

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Telstra and Eutelsat OneWeb launch LEO backhaul in Australia

The launch follows the signing of a multi-year agreement last year between the two that will enable LEO capacity delivered to Telstra's remote mobile customers across Australia ...

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Unlocking Sub-THz by Robotic Aerial Base Stations: Joint ...

Despite the numerous advantages of aerial base stations (ABSs), including their relatively ease of deployment and inherent flexibility for relocation to adapt to highly dynamic ...

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5g satellite backhaul

5G satellite backhaul refers to the use of satellite communication systems to provide the backhaul connectivity for 5G networks. Backhaul is a crucial component in ...

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[Backhaul for remote cellular mobile . Telsoc](#)

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Concept and Evaluation Of 5G Backhauling via Starlink

Our results show that the NGSO satellite constellation can be used for backhauling of 5G base stations with average rates of 100 Mbit/s in ...

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Applications



Telstra claims largest deployment of LEO backhaul in Australia

Eutelsat Group and Australian carrier Telstra announced the launch of what they claim is the largest rollout of Eutelsat OneWeb Low Earth Orbit (LEO) backhaul in Australia.

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What Is Backhaul? Internet Backbone (2025)

What is Backhaul? In the context of telecommunications, backhaul refers to the transmission of data from a remote site or network edge to a central site or ...

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What is Backhaul , TEKTELIC Glossary

This use case puts a backhaul in charge of transferring data between base stations and mobile devices. How does it work? The function of backhauls may be illustrated by mobile networks. ...

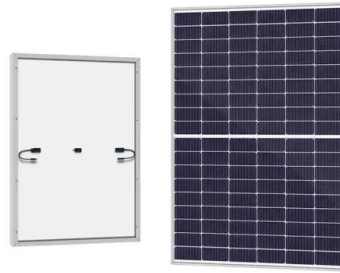
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What Is Backhaul? , BroadbandNow

What Is Backhaul? Backhaul is a network segment that connects localized access points -- such as cell towers, Wi-Fi routers and network ...

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