

Communication operators jointly build and share base stations



Overview

Infrastructure sharing in telecom involves two or more operators jointly using network components. This represents a significant shift from the traditional model. The Indirect Network Sharing is specified in 3GPP TS 22. 502, allowing the communication between the shared RAN and the core network of the participating operator to be routed through the core network of the sharing parties, as one of the key pragmatic measures of 5G Network. This document describes the successful practices of China Telecom and China Unicom in the lifecycle management of the shared network, including the basis for co-dimensional and co-optimization by unified network coding and key configuration, unified frequency strategy, and network evaluation. There is some co-operation between networks. Mobile Broadband Network Limited (MBNL) is a joint venture between Three and T-Mobile (now EE), and O2 and Vodafone have established a joint team called Cornerstone. The roll-out of mobile networks requires high sunk investment and the need to recover these costs. The three Chinese operators co-own a tower company, China Tower Corp, so that would make it easier for them to.

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Network Sharing Evolution

3GPP TS 23.501 specifies a network sharing architecture to allow multiple participating operators to share resources of a single shared network according to agreed allocation schemes.

China's carriers to build a shared 5G network

China Telecom and China Unicom have reached a tentative agreement to jointly build a 5G network and share network infrastructure. And it's possible that China Mobile may join them.



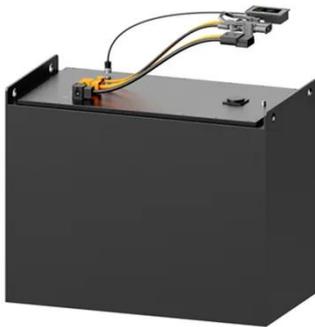
A Guide to Infrastructure Sharing in Telecom

Infrastructure sharing in telecom involves two or more operators jointly using network components. This practice can range from sharing a simple physical site to sharing complex active ...

White Paper On Infrastructure

Sharing

Firstly, the spaces within buildings are usually confined and reasons of aesthetics/civil works limit the choice even further. Secondly, having more than one mobile operators further complicate the ...

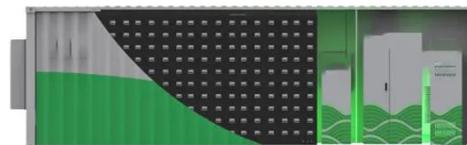


MOBSS Multi-Operator Base Station Subsystem

This approach enables operators to pool their resources, share physical infrastructure, and jointly manage the deployment and operation of base stations. It promotes cooperation among ...

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Telecom infrastructure sharing



Due to economy of scale property of telecommunication industry, sharing of telecom infrastructure among telecom service providers is becoming the requirement and process of business in the telecom industry where competitors are becoming partners in order to lower their increasing investments. The degree and method of infrastructure sharing can vary in each country depending on regulatory and competitive climate.

Joint Operators Technical Specification , Mobile UK

Over the past 20+ years, the JOTS documentation has evolved to include GSM, UMTS, LTE and NR and stands as a reference and a framework covering the design and test requirements (non ...



4G/5G Shared Network Smart Co-Governance White Paper

In 2019, China Telecom and China Unicom embarked on an innovative partnership known as "5G co-construction and sharing". Essentially, the two operators agreed to jointly build one physical 5G ...

Telecom Infrastructure Sharing Framework: Revolutionizing ...

This framework enables telecom operators to share physical and electronic infrastructure, reducing costs, accelerating deployment, and fostering innovation while maintaining competitive ...



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