

Wireless Distributed Network for Cloud Communications

For economical viability reasons, wireless network operators have been using hierarchical cellular network architectures for several decades. Such architectures provided them with a centralized way in sharing and managing scarce resources. A flat and distributed architecture could be however more energy and resource efficient than a hierarchical system, with lower capital and operational expenditure and no single point of failure. This new architecture paradigm could also deliver a wide range of enhanced business and performance benefits for the operators deploying wireless networks. With the introduction of new mobile devices and mobile applications, these distributed flat networks can significantly reduce the system complexity and provide the foundation for a robust and versatile service delivery platform. They would also integrate much easier with the emerging cloud computing frameworks for a true wireless long-term evolution, leading the current wireless cellular model towards a new wireless grid paradigm.



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