

题 目 城市 LTE 无线网络深入覆盖优

城市 LTE 无线网络深入覆盖优化方案

摘 要

论随着新时代科技的发展,用户对移动通信业务的需求已经慢慢的从语音业务的需求转变到大部分是对移动物联网业务的需求,因此对数据传输的需求随之增加。要想适应新网络时代的挑战,必须大大提高新时代无线网络的负载能力。LTE 的诞生以后,不断优化无线通信网络技术, LTE 具有频谱的利用率高、时延低、速率快等显著的优势,满足了用户对无线通信的更高要求。

虽然 LTE 技术具有较多的优势,但是仍存在许多需要优化的方面,比如在网络覆盖、PCI 优化以及干扰排查等方面仍存在不足。本文以滨州市滨城区为研究区域,针对城市 LTE 无线网络的深入覆盖优化方面的问题展开研究和探讨。本文针对城市环境的特点,总结出优化需要遵循的原则,即最优的系统覆盖,合理的邻区优化,系统干扰最小化等等,并制定出各种特殊的场景下的 LTE 无线网络深入覆盖问题的解决方案,对城市中 LTE 网络进行有效的深度优化。通过优化可以使无线网络网路更加顺畅便捷,同时有利于提高用户感知度,满足用户对各种业务的需求,提升运营商的品牌形象。

关键词: LTE; 滨城区; 覆盖优化; MIMO 技术; OFDM 技术

Urban LTE wireless network in-depth coverage optimization scheme

Abstract

With the development of science and technology in the new era, users' demand for mobile communication services has gradually changed from the demand for voice services to the demand for mobile Internet of things services. So the demand for data transmission will increase if you want to adapt to the new challenges of the network age, to greatly improve the load capacity of a new era of wireless network, after the birth of LTE wireless communication network optimization technology unceasingly, LTE has high spectrum utilization low delay rate significant advantages to meet the higher requirements for wireless communication users.

Although LTE technology has many advantages, there are still many aspects that need to be optimized, such as network coverage PCI optimization and interference screening. This paper took binzhou city as the research area and carried out research and discussion on in-depth coverage optimization of urban LTE wireless network According to the characteristics of the urban environment, this paper sums up the needed to follow the principle of optimization, the optimal system coverage, reasonable neighborhood optimization, to minimize the system interference and so on, and develop all kinds of special situations of LTE wireless network in-depth coverage problem solutions, to optimize the depth of the LTE networks in the city through the optimization of wireless network can be more convenient, at the same time to improve the user perception, to meet user demand for various business, ascension.

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