

Research on WiMAX technology - simulation and application deployment

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Abstract: In the context of the rapid development of mobile telecommunications networks, this topic focuses on researching WiMAX technology to identify advanced and optimal technical characteristics. The objective of the study is to analyze and build a WiMAX system simulation to evaluate the performance of high-speed data transmission services in real-world environments. The approach combines theory with experimentation, aiming to improve the quality of mobile network services while maintaining ease of deployment. The expected results of this research are a significant contribution to promoting the application of WiMAX in various fields such as e-commerce and personal communication.

Keywords: WiMAX, system simulation, mobile application, telecommunications technology, service performance