

Application of WIMAX technology in telecommunications networks

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Abstract: This topic aims to generalize and evaluate the effectiveness of WIMAX (Worldwide Interoperability for Microwave Access) technology in improving the quality of telecommunications network services in remote areas. The research context is based on the continuous growth of high-level Internet access demand, especially in suburban and rural areas. The main objective of this study is to build a feasible WIMAX network system to provide good quality telecommunications services with wide coverage. The approach combines both theoretical research and experimentation, including the analysis of current technology standards and application deployment on a test model. Expected results will affirm the important position of WIMAX in the future development of telecommunications networks and propose directions for manufacturers and service providers.

Keywords: WIMAX, telecommunications technology, mobile network, wide coverage