

Abstract Details

Title: Throughput Performance of Wifi and WiMax using OPNET

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Abstract: Wierless Fidelity (WiFi) network will be based upon the IEEE 802.14 standard. Worldwide Interoperability for Microwave Access (WiMAX), based upon IEEE 802. 16, is a standard with similar principles. The main good thing about WiMAX over WiFi is that it covers greater areas and has higher data rates. WiMAX network employees provide WiMAX subscriber products that permit link with the metropolitan WiMAX network while WiFi units are being used to touch base local devices within homes or businesses. Through this paper, we use OPNET Modeler to simulate and compare WiFi and WiMAX in a tiny area network and compare their performance in conditions of range of motion. Simulation results indicate that WiMAX may carry greater load and has better throughput.

Keywords: WiFi, wimax, simulation, OPNET and strap width.