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Authors:

Shaffatul Islam

Mamunur Rashid

Mohammed Tarique

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Abstract

WiMAX and WiFi are considered as the promising broadband access solutions for wireless MANs and LANs, respectively. In the recent works WiMAX is considered suitable as a backhaul service to connect multiple dispersed WiFi 'hotspots'. Hence a new integrated WiMAX/WiFi architecture has been proposed in the literatures. In this paper the performances of integrated

WiMAX/WiFi network have been investigated by using different 'codecs' proposed in the literatures. In this investigation two WiFi hotspots have been connected to a WIMAX network. One of the Hotspots is located two kilometer from the WIMAX base station and the other one is located one kilometer from the same. The network was simulated via OPNET simulator. Two types of statistical data namely the global statistical parameter and node end statistical data have been collected from the simulations. By comparing both types of data some recommendations are made for choosing an appropriate codec for the integrated WiMAX/WiFi network

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