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COMPARISON BETWEEN NETWORKS LTE AND WIMAX

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ABSTRACT

With the development of high-speed mobile broadband access technology, there are two emerging technologies: Long Term Evolution (LTE) and WiMAX. Both of them have similar goals, specifically to provide high data rate wireless network connection for cell phones, laptops. WiMax and LTE technologies are the main competitors in the mobile communication domain, there are lots of technical similarities between the two technologies in architecture and targets. Both uses OFDMA with flat-IP architecture .This paper presents the network architecture and Quality of Service (QoS) and Security For both technologies, In addition this paper illustrates the comparison of these two technologies using Riverbed Modeler 18.5 network simulator. The evaluation of the network performance for two technologies is done on the basis of analyze the transmission rates (voice traffic send / resaved), the simulation results obtained, show that the performance of the LTE network is better than WiMAX network.

Keywords: Wireless Communication, WiMAX, LTE, 4G.