Abstract

LTE stands for Long Term Evolution, which is a standard provided by 3GPP (3rd Generation Partnership Project) for high peak data rates usage with an uplink and downlink speed of up to 50Mbps and 150Mbps respectively. LTE is the next step forward in cellular 3G services. It is currently the most well known wireless data communication technology for mobile devices. Routing is a specific operation performed to route the packets from the source to destination in any network. Hence there is a requirement of a protocol or algorithm to determine the best way to transfer the data. The paper mainly deals with comparing and analyzing the performance of AODV routing protocol with and without LTE network. The topology used for the analysis of the parameters is same as to the architecture of the LTE network. The different metrics compared and analyzed in this paper are throughput, delay and jitter. The simulation results show that the AODV routing protocol with LTE network provides better results with respect to all the parameters which are analyzed.
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Index Terms
Keywords

LTE, 3GPP, AODV.