Abstract

Terminal mobility with Quality of Service (QoS) can be provided through efficient and seamless handoffs and handoff management procedures in 4G wireless access networks. The primary objective of this work is to analyze the handoff management procedures within a WiMAX access networks and to evaluate its impact on different QoS metrics such as Packet Loss, Throughput and End-to-End Delay. The performance analysis is done using two simulators namely Network Simulator and QualNet. Simultaneously the work also evaluates the reliability of ns2 by comparing the results with QualNet so as to ascertain its usability for vertical handoff management procedures. This type of experimentation is very useful to help students understand the handoff concept in a very simple and lucid manner.

References

- Johann Marquez-Barja, Carlos T. Calafate, Juan-Carlos Cano, Pietro Manzoni. : An

**Index Terms**

Computer Science Wireless Communications

**Keywords**

WiMAX handoff throughput delay packet loss ns2 QualNet