

ABSTRACT

The demand of telecommunication technology in the present time within fast, flexible and support mobility's must for humanlife to be fullfild. One of technologies which can answer this chalange is Worldwide Interoperability for Microwave Access (WiMAX). But also this technology needs Quality of Service as a parameter to measure the performance and reliability. Especially when there is a movement or handover then a probability of overload in the networks.

Because of those I prefer this topic about handover managemant of mobile application OFDMA IEEE standard 802.16e (Mobile WiMAX) using load-balancing algoritm. which this methode is developed in order to support the utility and to minimize overload probability. Those method also can guarantee the QoS value in the procedure.

One of the aspect which needs those guarantee is the handover mechanism and the handover parameters like handoff delay or latency. Cause of those author chose this topic to explore about handover management using load balancing algoritm to keep the QoS values on the track. In the end, we can be found that the QoS performance is not very influenced by velocity change and user mobility. The uses of load-balancing algoritm in Mobile WiMAX networks can rise the system performance in the networks with high traffic value by the QoS parameter like delay, throughput, paketloss, jitter dan latency handoff that get better quality.