

Abstract

Broadband technology and wireless are two telecommunications technologies experiencing the existing fastest growth in this time. One of them is WiMAX technology, promised high-speed with broader access reach from technology wireless before all. This thing causes more and more user to obtain amenity to access various applications everytime and everywhere. Requirement base of service user is varying and the many amounts user in one Base Station

(BS), hence allocation process of bandwidth in communications system wireless will become very complex. To overcome the mentioned of IEEE 802.16e as standard for Wimax to release standard of Qos(Quality Service of) so that all consumers of balmy service use technology of wimax.

In this final duty, evaluate technological activity of wimax especially Qos(Quality of it by measure of throughput, and delay of packetloss moment system overcome video trafik of conference pursuant to simulation result use network software that is break even OPNET 14.0. Final Duty result conducted at this research is got :

maximum throughput get from user 0km/jam with user mobile <60km/jam,packetloss maximum get from 120km/jam with maximum user,packetloss is 0,89%,and we get delay 44,66ms.

Evaluation this QoS of technology WiMAX based IEEE.802.16e

Keywords : WiMAX, video conference.