

Abstract

Nowadays in world of communication, information has been transmitted not just by sound, but also by data and video became more transmitted. Need of information data and video has been increased, and of course have to follow with complementary service technology. Video conference is one of video and data services. Video conference services need to consider bandwidth requirement, data transmission rate, and Quality of Service (QoS) that required.

In this final project will be discussed about performance of WiMAX technology to perform video conference services. IEEE 802.16d is wireless broadband standard technology that provided or fixed wireless access, and limited mobility. Using a high frequency about 2-11 GHz and, bandwidth channel that wide enough and can adjustable according need, so WiMAX capable to give high data rate and throughput.

This technology can support any kind of data service based on packet, multimedia, and internet like transfer and high speed video streaming, VoIP telephony, with movement and without movement object, e-mail, web browsing, and video conference. With network simulator hoped video conference service that used WiMAX technology can be analyze from QoS.

WiMAX technology to perform video conference can be reconsidered from the result of this experiment. Disadvantage and advantage of WiMAX technology hoped can be optimize for video conference service.

Keyword: video conference, WiMAX, QoS