ABSTRACT

Worldwide Interoperability For Microwave (WiMax) is a standard for

broadband wireless access (BWA) with the ability to deliver high-speed data. Many

more capabilities was offered by WiMax than previous technologies, such as high

data rate, wireless acess to end users, as well as the ability to apply the conditions of

Non Line of Sight (NLOS), both applications for fixed, nomadic, portable, or mobile.

Another characteristic of WiMax is a guaranteed QOs (Quality of Service).

Therefore, the mobile WiMax is needed a good scheduling algorithm that is able to

support QOS for a variety existing services. A good Scheduling algorithms should be

able to guarantee the maximum total data rate, fairness, and the good use of

bandwidth for all users.

In this Final Project will be analyzed WiMax network performance when

using scheduling algorithm of Modified Weighted Round-Robin (MWRR), Weighted

Fair Queuing (WFQ) dan Custom Queuing (CQ), seen from the parameters of delay,

packet loss, jitter, throughput dan fairness and compared with ITU-T standard.

Keywords: WiMAX, QOS, MWRR, WFQ, CQ, OPNET