

ABSTRACT

Congestion control at internet network with traffic growth which up exponentially become one of important effort to give best service for its consumer. This condition cause high packet lost, low throughput, high delay and must be repaired soon to take control a congestion.

Efforts to upgrade internet performance which developed by *Internet Engineering Task Force* (IETF) among other *differensial service*, *Resource Reservation Protocol* (RSVP), *Active Queue Management* (AQM) and the other alternatif improvement.

In this final project, will compare performance on some queue management algorithm among other *Weighted Fair Queueing* (WFQ), *Modified Weighted Round Robin* (MWRR), *Modified Deficit Round Robin* (MDRR). Beside that, this final project also will be evaluate how far AQM mechanism can assist to each link fairness TCP traffic with other non-TCP traffic while this streaming traffic eventually predominate sharing link so that cause scare of TCP traffic.

Detecting performance of queue management algorithm, writer design network topology simulation which consist of some routers, IP32_cloud and sources they are LAN FTP, LAN video and VOIP with OPNET IT Guru Academic Edition 9.1 as simulator.