ABSTRACT

The usage of internet services is growing rapidly as time goes by. Whether it's just chatting, browsing, and even online gaming. This can be seen in the growing number of internet cafes, increasing number of users that using USB modem, and simplicity in accessing internet services through mobile devices. In telecommunications, this fact will be the next problem that must be controlled, because more access will lead to a very dense traffic which would then affecting in quality of data communication.

One way that can be done to conquer the quality of data communications and ensure Quality of Service (QoS) is the presence of bandwidth management. Microtic as one of the vendors of hardware and software that provide facilities to build a router, can be used as a means to implement bandwidth management on the network. One method that can be developed on in terms of policy in bandwidth microtic setting is Hierarchical Token Bucket (HTB) and Per Connection Queue (PCQ). HTB concept is to provide priorities for each of the terminal points of traffic. Priority is determined based on position in the network hierarchy that has been given a priority weighting. After each terminal has its priority traffic respectively, then defining bandwidth and transfer rate are set using the PCQ method.

In this Final Duty try to implemented about Class Of Service (CoS) where the services will be divided into six class of services (QoS) on Nethost network. Then performed the throughput and queue byte to determine the value of PCQ rate that suitable apply in Nethost network among three choices, they are 256 Kbps and 384 Kbps.

Key words : *CoS, QoS, Mikrotik, HTB, PCQ*