

ABSTRACT

Bandwidth management absolutely is needed for multiservice network, variant applications which can be served influence to the use of link in the network. Links must be able to handle need of user application even in congestion condition. It must be a guarantee that link still be alive properly eventhough network experiences heavy request services.

Bandwidth management holds important role in order to manage kinds of applications which can access remain link beside that it can give us warrant to application which has bandwidth allocation to keep sending data although there is congestion in network. Moreover in particular situation, if other application does not use their bandwidth allocation, Bandwidth Manager will shift that idle bandwidth to class which is experiencing backlog. The benefit is not only reducing the packet queue but also optimizing the use of link.

Class Based Queuing (CBQ) and Hierarchical Token Bucket (HTB), as Bandwidth Manager, which can be got freely and can be used over Linux platform are suitable to analyze the pros and cons. It is expected that Bandwidth Manager can be implemented accurately and appropriately so that network will work optimally.