ABSTRACT

Requirement of communication and entertainment that used internet base, is important to

support modern lifestyle that increase significally. So that, it need kind of services to fulfill the

request of variation communication and entertainment in one single connection.

Triple Play is kind of services that accumulate some of service such as voice, data and

video in one line of connection that run together. Because bandwidth request that always

increase as same as the increase of user and time, so to implement accumulation technique, it

needs reliable connection network that support high bandwidth assignment and level of QoS. For

that, it use EPON (Ethernet Passive Optical Network) technology that based on single fiber optic

which has symmetric 1,25 Gbps speed to support future use.

In this Final Assignment, it would analyze requirement of EPON network performance

to fulfill bandwidth and QoS needed in "Triple Play" services. It conclude that "Triple Play"

service would be exist in client resident network access.

Key Words: Triple Play, EPON, and QoS.

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