*ABSTRACT* 

Triple play services from PT Telkom Akses indihome are fiber optic installation services that

are most in demand by the public. So that what makes the trouble come up. One of the obstacles

is the difference in licenses from each provider. The ONT carried by field technicians is also

sometimes different in type from OLT which serves the new installation request area. This is

because the OLT and ONT devices must have the same type.

Referring to these constraints, it is necessary to Open ONT Study on GPON network. Open

ONT is ONT can be connected even though different type of OLT. Different types of OLT and ONT

can be connected by opening a license from the OLT and ONT devices used, so that configuration

can be done. Configuration is done by a trial method so that different types of OLT and ONT can

be connected. The device standard and signal quality standards in this Final Project use the FTTH

standard from ITU-T G984.

This Final Project Goals is Open ONT Study on GPON Network to getting connected even

though they types are both different. This trial tests of internet services to see the Quality of Service

(QoS). QoS values on internet services with a value of 1.051 Mbps, 295 ms delay and 0.55407%

packet loss. Based on the results of QoS, different types of OLT and w ONT have good QoS values.

Keywords: FTTH, ONT, OLT, GPON