

ABSTRACT

The development of increasingly sophisticated technology makes the need for information such as data, voice, and video is increasing. This data needs to be realized by the presence of a network with high-speed access. And with the development of fiber optic media now supports data transmission speeds in a network. Easton apartment has a Triple play services ie internet, IPTV and VOIP. The final project will add to the CCTV room service on occupancy.

System to use the service configuration ONU, which is the connection to the FTTB network to occupancy. To configure the Internet, connect directly to the ONT port 1, IPTV uses a Set Top Box (STB) and connected to the ONU port 2, VOIP is connected to the ONU port 3, and IPCam connected to ONU port 4. Analysis of the quality of the network can be known through the process of adding IP cameras, with software wireshark 1:12:12. With software wireshark 1:12:12 then will get after and before the results of the comparison of the parameters of Quality of Services (QoS) in the network such as delay (one way delay), jitter, throughput, and packet loss.

From the results of tests performed at the end of the measurement results indicate the following is added IPCam on multiplay service ONU to get results after after IPCam with value added services into a throughput of 1.73 MB. And the results before for internet services got throughput amounted to 0.689 MB.

Keywords: FTTB, Multi Play, Throughput, Delay, Packet Loss