ABSTRACT

Advances in information technology at this time continues to grow along with human needs who want convenience, speed and accuracy in obtaining information, to make it easier to find information, you need a WLAN. Wireless Local Area Network (WLAN) is a wireless data communication technology as a medium of information for all people.

This study analyzes the performance of the WLAN network in the new building of Telkom University, namely Telkom University Landmark Tower (TULT). The data obtained includes the TULT network topology and Access Point plans, as well as their specifications. The analysis carried out will include measuring the signal strength of each Access Point in order to obtain maximum coverage for each Access Point later. Additionally, performance or Quality of Service (QoS) measurements are performed for each access point.

Based on the results obtained from this test, it shows than the network performance on TULT is functioning properly, and the sigal strength is very good. QoS the results from throughput with browser service 2112,936 bp and 1 ms delay, and the average signal strength results from realible spots are 39,58%, signal strength from low signal spot are 60,08%, and blank spt 0,33%.

Keywords : *WLAN, QoS, TULT, Access Point.*