ABSTRACT

Quality of Service is an important factor in ensuring good network performance and a satisfactory user experience. This research analyzes Quality of Service using throughput, delay, jitter and packet loss parameters. The focus of this research is on internet networks without involving system design and implementation. The aim is to understand the performance of internet network services and provide Quality of Service analysis measurement results at Telkom University Purwokerto. Through the analysis that has been carried out, good results were found for each parameter tested using the Wireshark tool. The object of this research is analyzing network conditions in real time, the data was taken using the Tel U Connect SSID with five buildings on the Telkom University Purwokerto campus, so that you can find out the buildings which Internet network is best for campus activities, research data is taken in the morning from 9.00 to 9.30 then in the afternoon from 13.00 to 13.00 13.30 and in the afternoon at 16.00.16.30 from the whole research, the results in the rectorate building in the morning, afternoon and evening were very good, but the delay and jitter in the afternoon were less good compared to the morning and afternoon, then the results in the DSP building , DC, IOT and TT are all good, while in the DSP building during the day the delay and jitter parameters are in the medium category. Apart from the results mentioned above in all buildings in the morning and afternoon sessions and afternoon the parameters measured still meet the tiphon standards and are included in the very good and good categories.

Keywords: Quality Of Service, Wireshark,Telkom University