

## ABSTRACT

Wireless LAN had been deployed in STT Telkom, which is in this time still less optimal exploiting. The existing wireless LAN seldom being used to support education activity in this campus. During the time, surfing activity become especial target is existence of wireless LAN. With Wireless LAN network, the computer owner which is wish to access information both regional or global can freely move in hotspot area without disturbed by existence of cable network. The existence of Wireless LAN network in STTTELKOM campus is potential used to improve the quality of education activity in campus.

Multimedia application through wireless LAN network become more interesting to be realized. Multimedia which is intergrated into website used as an interface, having appearance interaktif and easy to understanding between lecturer and student who used multimedia application.

As for result of this analysis can give information concerning optimalization of wireless LAN network in campus of STT Telkom to support multimedia service based on web. With this website, download activity, video streaming, voice call, and video call can be used easily. From the test result one way delay for voice is fill on range best ITU-T standard 0-150 ms. For streaming application, mean of actual rate pass standard frame rate which is 15 Fcs. Video call application, quality is also reach good result. The quality of video, depend on quality of web cam which is used. For download data, mean of bit rate which is gotten reach up 80 Kbps. In whole, from the result of responden which is fill quisioner in this multimedia application, responden said that all of this multimedia application is enough good.

Keyword : LAN wireless, web, multimedia