

ABSTRACT

One of the fast developed IT application lately is multimedia technology over IP one of them is video conference, its being very attracting issue and continuously developed according to weaknes point of it. This weaknes points are rise because we have several basic characteristic should be fullfilled, thats high data rate and real time play back where if this characteristic are missing so we will have degradation of quality. Otherwise another developed that has huge growth is wireless LAN, part of transmitio. The STT Telkom wireless LAN network is very potentialy for civitas academic to access the information by mobile.

Alongside with technology growth, IPv6 present with several advantages. Otherwise it has huge space address and simple header format, IPv6 also has a good QOS quality. The interface also significant developement is GUI (Graphical User Interface). This GUI allows the user to interact with computer because its user friendliness

In this final project, we do the implementation IPv6 addressing for application video-conference in wireless LAN network with the interface between users using GUI where builded with JAVA programming language. This final project have some implementation scenario which parameter as numbers of user who access the aplication then will be measured by the QOS (*througput, delay, jitter, and packet loss*) for each scenario. With this final project, wish can help to develop audio visual communication in STT Telkom and especially in students center.

Keyword : Video conference, IPv6, Wireless LAN, JAVA GUI, QoS (Quality of Service)