

The very fast growth of technology telecommunication claiming the service provider make the best possible efforts to meet customer's every single need. As we know the network that usually used is cooper network. Cooper still has so many minuses. So that, we need the replacement solution in order that the necessary that keep on growing rapidly can be fulfilled. The application of ADSL is one of the alternative to solve the problem.

ADSL (Asymmetric Digital Subscriber Line) is one of xDSL variants that process transmission capacity linked to the central office or vice versa. Speedy service is DSL – based technology (Digital subscriber line) that can be accessed in high speed internet and use telephone in the same time. But in fact Speedy is only used to data services, meanwhile Speedy can be used to some services like VoIP and Video Conference.

VoIP is the only one technology which able overcome voice traffic passing IP network. This final project will integrates voice with ADSL Speedy by doing the implementation of VoIP in Speedy ADSL network, so we can do the testing for implementation feasibility by analyze QoS (Quality of Service).

Key words : *ADSL, SPEEDY, SIP, VOIP.*

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