

ABSTRACT

Voice over IP (VoIP) is the technology that is used to transmit voice over an IP network, which can be either a corporate network or the Internet. VoIP has more service at lower price than PSTN. As we all know, there must be a lack of voice quality on data packet service, that will cause the sent on data voice is not as good as we expected to be. The use of IP media as an access has some weaknesses, such as IP network available nowadays is designed for data link that requires no high real time, this different from VOIP. Beside that, limited bandwidth and overload traffic is the main cause at packet loss when sent data voice, that make voice will lose its continuity. And then there's delay and jitter which cause the voice is interrupted.

This final project will analyze real network and various parameter QoS, which includes protocol H.323, codec G.729, call control and signalling and it's support, link access, passed traffic, the size of bandwidth which is needed, and other parameter that influence data transmission process. With all parameter that exist in real condition, factors that influence VoIP network performances (QoS) can be analyzed, according the ITU standard. Network that will be analyzed is GLOBALSave long distance call service VoIP network which belongs the PT. INDOSAT. It's hope that this analysis will provide solutions for problems that happen in reality.

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