

ABSTRACT

When the real time information (voice) transfer with ip network (VoIP) give quality that acceptable, then transfer of voice information appear with large size by packet network (IP) and other information (video, messaging, etc). Telephony over internet (IP) is technic of sending voice with data network that enabling user of system telephone to call certain number with internet.

VoIP is related with reduction of communication cost. Integration voice, fax, and data become challenge and priority for many network provider. In telecommunication regulation and development multi-service access enable to overcome the challenge. Voice over packet network (ATM, Frame Relay, and IP) is access network that have fastest growth. The test of VoIP implementation to Speedy ADSL network. If we use Speedy ADSL therefore, we must pay two kind of payment in one month, there are telephone payment and internet payment. So with VoIP can reduce cost with use telephone by internet. Therefore on every month we only pay for using internet (Speedy).

From the test of VOIP implementation to Speedy network in Tasikmalaya can give conclusion that VoIP can implementated to Speedy. The delay that happen in the test is acceptable in VoIP category, because the delay is lower than 150 ms, have packet loss that very small (<10%) and have small jitter (<30 ms). For MOS value are 4.2206 ms up to 4.2226 ms therefore VoIP which use H.323 can be implemented on speedy network.

Key word : VoIP, QoS, MOS, ADSL