

ABSTRACT

Over time the human need for the development of technology is increasing, the needs are in terms of communicating. Many companies want to communicate with business associates and subsidiaries are located in other countries. To overcome this problem a lot of alternatives that can be used. One way is to use VOIP, the day of the show quality VOIP. Technologies that transform the analog signal to digital and then do paketisasi and transmits it via the IP network will be the right choice to replace the PSTN. Advantages of VOIP technology is this technology can be made at low cost.

At the end of this project, the authors designed a system by changing the number of VOIP calls from different networks, so read no local calls at the destination phone is on the PSTN network. The system implementation consists of two devices and laptop-based VoIP softphone applications, an analog telephone device and a PC-based billing server and asterisk softswitch, billing systemnya while the author based at an existing Telkom billing for PSTN tarif.

At interlocal calling using VoIP tariff which was get will be cheaper. For make calling using VoIP needs setting in asterisk especially in trunking, for it's protocol using IAX. Tariff which was get based on it's time and zone, in zone III the highest tariff is Rp. 4275 at 07.00 – 20.00 and call duration less than 2 minutes. For VoIP technology which existed is skype, for making call to PSTN is more difficult and more expensive, because in 2 second duration of calling the tariff is Rp. 2000

Keyword : A2Billing, VoIP