

ABSTRACT

The rapid growth of Telecommunication technology, has been push peoples to follow it. VOIP (Voice Over Internet Protocol) is an alternate technology which has possible to people to communicate far away distance as same as PSTN network which based on circuit switch. VOIP implementation which based on packet is cheaper, now standard protocol which is used in VOIP communication is SIP and H.323. This protocol has different standard, SIP is develop by IETF and H.323 by ITU-T. For this Research is used standard from IETF because in the future will be developed in NGN (Next Generation Network) with integrated to all telecommunication network pass IP use softswitch is SIP protocol. VOIP network used to only provide voice, now has been develop on messaging and video service. This video service more interested and start to develop. One of videophone tools which uses H.324 protocol can gives video and voice service in the same time with bit rate demand enough low so it can be passed in the PSTN network. H.323 protocol is a protocol standard which is build by ITU-T to handle video service special for low bit rate such as PSTN. And of course can communicate through VOIP network through a gateway.