

ABSTRACT

The development of today's advanced technology very rapidly , not apart in network communication technology . Softswitch is a technology that is capable of realizing the NGN (Next Generation Network) , which is able to bridge the PSTN network , PLMN , and IP (Internet Protocol) in 1 infrastructure that can connect with a variety of services available . One of the services that are currently in demand and the spotlight is VoIP (Voice Over Internet Protocol) . IP PBX is a telephone exchange pure IP -based digital and can communicate with the central telephone exchange analog and IP communications features that quite a lot . Asterisk (Trixbox) and Elastix is a software implementation of a SIP server that is open source .

At the end of the task entitled " *Analysis Implementation of Interconnection SIP Server and IP PBX Panasonic with Testing Using ENUM Server for VoIP Service* " will be given a way to interconnect SIP server that consists of Asterisk (Trixbox) and the Elastix IP PBX Panasonic KX - TDE 200 version so that the client of the third the server can communicate with the management of a number using ENUM .

QoS measurement results showed that the two scenarios without going through the interconnection and ENUM Server with ENUM server via each of which consists of the interconnection between the Panasonic IP PBX with Asterisk (Trixbox) , Panasonic IP PBX with Elastix and Asterisk (Trixbox) with Elastix done still meet the standard of " good " , with a whole variety of background traffic is given , ie delay = < 150ms , jitter = < 50ms (well , ITU) , the standard " medium " for packet loss = < 15 % (Tiphon) there is background traffic conditions . PDD large value of each interconnection scenarios are still under 2.23 seconds (IETF Standard) . This system meets the quality of VoIP services making it feasible to implement

Keywords : NGN , PSTN , VoIP , Softswitch , IP PBX , QoS , PDD