

ABSTRACT

Today the developments in information and communication technology are growing positive impact on the development of Next Generation Network with one of its development is IP Multimedia Subsystem. IMS is a technology that combines mobile and internet technologies with a range of services that can be handled.

IMS technologies can serve a variety of services such as VoIP, VOD, Video Conference which have characteristics of data packets is different. To ensure the quality of data transmission services IMS, QoS mechanisms are needed to serve the delivery of data packets according to the characteristics of services and can guarantee the quality of the data stream. In this final project implemented a combination of IntServ and DiffServ QoS in IMS networks by using two services in the IMS VoIP and VOD. IMS Tools are used UCTIMSCore as servers IMS, IPTV AS UCT as an application server, and UCTIMSCient as a user manual.

Once the scenario is executed, the implementation of a combination of IntServ and DiffServ QoS noted that fairness, jitter, packet loss, throughput, and delay is better than DiffServ, IntServ, or that do not implement QoS.

Keywords: IMS, QoS, IntServ, DiffServ