

ABSTRACT

VANET (Vehicular Ad Hoc Network) is currently receiving a lot of attention. Like the other networks, VANET can provide data, voice and video. In voice services, there are many variety of voice codecs that can be passed on the network. To find a good and efficient sound codec that can be passed on VANET so necessary to do a codec comparison on routing protocols in VANET.

Performance analysis of VoIP QoS with G.711, G.729, and GSM codecs in VANET network using OLSR routing protocol will be do in this final project. The result for the analysis will be taken through a simulation using network simulator-2.35 software that runs on the Linux operating system. Simulations will be performed using highway scenario. QoS parameters to be analyzed include throughput, delay and packet delivery ratio.

From these results, the results of the QoS parameters in less satisfactory because it is not in accordance with international standards that have been determined, only the delay parameters that are appropriate. However, GSM is the most optimal codec in this study because it show the best performance with low delay and PDR value is better among others.

Keywords : VoIP, codec, VANET, OLSR, Network simulator