

## ABSTRACT

*Technology evolved rapidly audio, video, and data become a thing to support communication system globally. Video streaming is one of multimedia service that needed to send audio and video from streaming server to client. Video streaming service enables a real time broadcast. On streaming, it needs a streaming server to send the audio and video.*

*In this final task, the writer compares the quality between two video streaming protocol which in this case are Real Time Streaming Protocol (RTSP) and Real-time Transport Protocol (RTP). The testing is done by using VLC server on mp4, avi, and mkv video format and also using a background traffic in order to get the delay, jitter, packet loss, and throughput that affected by the background traffic itself between RTSP and RTP protocol with their own method.*

*The result shows that video streaming service with multicast method on video format generates a 62% fewer delay value on RTSP protocol than RTP, 74% fewer value on for jitter than RTP, 34% greater throughput value on RTSP than RTP, and last parameter which is packet loss has 2% greater value than RTP protocol. In the matter of video quality, RTSP is better than RTP, because it has a better packet loss and throughput value.*

*Keywords : VideoLAN Client (VLC), Real Time Streaming Protocol (RTSP), Real-time Transport Protocol (RTP), Quality of Service (QOS).*