

## **ABSTRACT**

Internet have been develop well for past recent year. This momentum appear with born of new technology which need high speed and high mobility with broadband access. ADSL as a new technology for internet access solution. This technology offer broadband access which optimize telephone line to become digital high speed for internet access. With ADSL (Asymmetric Digital Subscriber Line), data communication, voice and video could happend and flow along the line with only 1 pair coax access network.

To determine the quality of ADSL in Pekalongan as a study case for this paper, ADSL will perform as simulation which condition similiar with real network characterstic in Pekalongan, and analise the RSVP implementation effect to multimedia service for ADSL suh as VOIP, specialized in QOS Parameter (througput and delay). Otherwise, from the electrical parameter measurement, will be calculate to determine quality of the network

From ADSL Simulation, the network using RSVP could result better delay, jitter and throughput parameter than network without implementing RSVP.

Keyword: ADSL, RSVP, QoS