

ABSTRACT

Nowadays, development of technology was created the new applications that have more efficient in productivity and cost. Along with that, the new innovation has happened for telephony system and data network where is *voice* network provider has started for integration between *voice* and data network. This integration result usually called as VoIP (Voice over Internet Protocol). Now, VoIP application has followed with picture sending that usually called as video call. VoIP technology has developed becomes wireless VoIP. The different basic wireless VoIP related on using wireless device (hotspot device or point to point device).

VoIP applications are needed better QoS (Quality of Service) than common shipping data applications. In this case, utilizing of RSVP (Resource Reservation Protocol) is one of step that is taken for solving that problem. That is related with RSVP as protocol signaling that is used to resource reservation on network in order to get better service quality.

For looking reliability of RSVP in the VoIP and video call on WLAN then needed QoS parameters like inter arrival jitter, packet loss and throughput. Based on result of examination that have done on client with different distance then can be produced better with RSVP implementation. This could be proved with data like largest throughput, jitter and smaller packet loss on reservation 500 kbps and 1 Mbps that are compared with network without RSVP. For distance, when client on longer distance that are 5 meter until 20 meter have been changing throughput become lower, jitter and packet loss are higher.

The summary are giving RSVP on WLAN make up one of right solution when we VoIP and video call. If we give largest RSVP reservation then produced largest QoS too.