

## ABSTRACT

The fast development of Internet and also the development of multimedia application need Quality of Service (QoS) from certain. Nowadays IPv4 have been proofed as application that can be rely on have been able to implement some of QoS handling method, one of it is IntServ by using RSVP protocol method. But, IPv4 still have some important matter, so it needs a new IP as the substitute.

IETF have designed IPv6 that is used to replace the current IP that is IPv4. Some troubles in IPv4 have been fixed with IPv6, especially some problem with the limited IPv4 address. IPv6 also designed with the header simplification and other addition feature from the development of IPv4. The support of QoS by adding field flow label in IPv6 header also one of the important development. With the adding of the field flow label implementation QoS in IPv6 will gain a lot more QoS function compare with the implementation in IPv4.

The implementation IPv6 which support QoS will be able to overcome the fast developmnet of internet. RSVP is a signalling protocol which is used to reservate the resource in the network. Field flow label in IPv6 header can carefully difference the flow traffic which possibly can identificate precisely the traffic that need the certain kind of quality service. RSVP in IPv6 will work together with the field flow label to provide QoS.