

ABSTRACTION

Mobile WiMax is one of broadband wireless access which provides transfer rate and wide area coverage, Mobile WiMax can support many kinds of data services based on multimedia, including *Video Conference* or called often VCON. Utilizing RSVP can fix VCON performance. There are few RSVP reservation methods, using the accurate reservation methods is one of many steps which can optimize performance. RSVP is signaling protocol that is used to reserve reservation on network in order to get better quality.

The experiment is undertaken by analyzing RSVP protocol performance or data services, which in this case is VCON, on *mobile WiMax network* by comparing VCON performance using RSVP protocol fixed filter and shared explicit reservation method. This work is done by observing the rise of RSVP protocol performance by shared explicit and fixed Filter reservation method. Parameters that are used as quality performance standard such as *delay, throughput, packet loss, and jitter*.

Result which is obtained from simulation RSVP using reservation Shared Explicit method brings in better performance, visualized by Jitter value, delay, throughput and packet loss. Moreover, *mobile WiMax* network can send *video conference* (VCON) by good result when using RSVP Fixed Filter reservation method also Shared Explicit. It can be seen from QoS parameter that measured which is according to ITU-T standard and thipon.

Keywords: *Mobile WiMax, RSVP, Fixed Filter, Shared Explicit Video Conference, Delay, Throughput, Packet Loss, Jitter.*