

## ABSTRACT

Mobile WiMax is broadband wireless access technology that properly supporting WiMax system applied at portable and mobile even fixed and nomadic. Mobile WiMax capable of providing transfer speed up to 70 Mbps and radius about 50 Km and also capable to provides highest data rate and throughput because it uses highest frequency also, 2-11 Ghz and bandwidth canal that width enough which can be adjusted as needed. So that, Mobile WiMax can supports all kind of data services based on multimedia, one of them is Video Streaming.

For this application need better QoS then regular data transmission applications. SCTP fungsion is one of steps that can take to solve that problem. SCTP is controller protocol that used for prioritize the data based on real time to take precedence on network so obtained better service quality.

On this Final Project, SCTP performance analysis for stream media service, on this case is Video Streaming on mobile WiMax with the comaprison between SCTP and non-SCTP. Research conducted by seeing performance increase that given by SCTP towards video streaming application. Parameter that being reference in the QoS standards are: delay, throughput, packet loss.

Result of this final project is knowing SCTP performance in increased performance in throughput and packet loss, and also minimalized delay for streaming media service on mobile WiMax.

Key Word: Mobile WiMax, SCTP, Video Streaming, Delay, Throughput, Packet Loss