

Siripong Sittichaiyanan 2010: A Study and Analysis of Leased Line Internet Traffic Characteristic to Improve Quality of Service. Master of Engineering (Electrical Engineering), Major Field: Electrical Engineering, Department of Electrical Engineering. Thesis Advisor: Associate Professor Mongkol Raksapatcharawong, Ph.D. 126 pages.

The purpose of this research is to present method to manage the limited bandwidth of leased line internet at router to improve quality of service and transit data through internet network with higher speed and selected priority.

Leased line internet traffic characteristics are studied and analyzed to arrange priority of using protocol. The research also compares protocol traffic rate, drop rate of traffic and transferring response time before and after improving quality of service. The results show the limited bandwidth can be use with higher efficiency.

The proposed method can increase protocol traffic rate with the highest priority. Drop rate of traffic and transferring response time will be reduced.

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Thesis Advisor's signature

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