

ABSTRACT

Quality of service at ATM (Asynchronous Transfer Mode) network is very absolute needed because ATM used to handle assorted service. ATM is technology designed to transfer information with high-speedily including voice, video and data. ATM can transfer all the information type in network efficiently. All service capable to handle by ATM network can implemented in internet network.

A new service Guaranteed Frame Rate introduced by ATM Forum and ITU-T can enabling that consumer obtain minimum service guarantee of rate before congestion and can send data at higher level rate if available resources. This service represent development of class of service UBR because can give minimum guarantee of rate at Virtual Channel (VC) ATM to deliver TCP traffic. Minimum bandwidth guarantee with this minimum rate can improve performance of delivery of packages of TCP through ATM network.

This Final duty analyze QoS (Quality Of Service) of service of IP over ATM at class of service GFR (Guaranteed Frame Rate). Parameter to influence the quality of service to be paid attention and simulated is throughput and CLR (Cell Loss Rates) of service of IP over ATM. Existence of mechanism of Policing, mechanism of Buffer and mechanism of Dropping and also scheduling can be seen at this simulation will influence the quality of service that offered by class of service GFR (Guaranteed Frame Rate). By making simulation that combining the fourth of the mechanism can be analyzed by result of which is obtained that is yielded throughput from each Virtual Connection. With analyzing throughput and CLR, can be seen how quality of yielded service if size measure of buffer and level of priority load has changed.