

## ABSTRACT

Data communication services become one of rise-develop technology on telecommunication network. Mobile-8 As a telecom cellular operator based on CDMA which accommodate data service, strive for giving high services user satisfaction by QoS level measurement. QoS is equipment on hand to apply minimum availability services guarantee.

This Final Project discussed packet data services performance on PDSN network study case in Mobile-8 telecom. To analyze packet data service performance, several parameters such throughput, delay, packet loss, and jitter are used to know QoS level

To get system analyzed , first of all make three month time observation from May to July 2005, during time get average busy hour for packet data services at 11 clock with incoming data average 14789 packet with the result that 1,031184 paket/s avarage incoming data rate and 15.93 ms delay. By means of 63,761 packet/s total services rate, then packet data system on Mobile-8 is stabil enough with utilization factor 0,01628 ( $\rho < 1$ ). From the analyzed get throughput average 1326,71 bps, with bandwidth link availability up to 256 Kbps, so only 0.5 % bandwidth occupancy used with delay variance (Jitter) 0,1238 ps and average packet loss 18.35 % . from analyzed above showed that packet data performance system on mobile-8 telecom is good enough, but there are a lot of bandwidth wasful.