

ABSTRACT

TELKOMFLEXI is one of wireless telecommunication service. It is use CDMA technology. One of service TELKOMFlexi is SMS (Short Message Service). Along with the increasing of requirement about phone make intensity traffic increase also. This increase result often the happening of delivery failure order from caller to receiver. One of cause is higher of intensity traffic which must be served by SMSC. SMSC is an gateway to deliver message from/to flexi.

This Final Project be studied a density analysis by queue method with use rate of service (message/second) and rate of arrival (message/second), amount of channel and also size of buffer. For parameters input of simulation program, we use data of network topology used by provider, data of intensity traffic (rate of arrival and rate of service), size of buffer. And then for parameters output is delay of queue, amount mean of message in system, amount mean of message in queue, utilitation.

This simulation is determinable mount failure of delivery message failure by using queue method, concluding stability from SMSC.

Keyword : queue, SMSC.