ABSTRACT

In a simple definition, softswitch is switching based on software. The main function are switching and call control (it manages call release /setup from and to customers) like the circuit central main function, completed with customer service abilities such as phone, internet, and multimedia. Softswitch implemented in software from in computer. Today, it has been implemented in Indonesia. In migration process, softswitch is a connection between circuit switch network and packet network. As a connection from circuit switch network, it manages real time information which has large traffic charge, so it needs high abilities softswitch. What method that must be done to examine softswitch performance, to obtain the best performance between traffic charge and softswitch abilities.

This final project makes modeling and simulation of softswitch with network simulator 2. it models softswitch elements or Media Gateway Controller (MGC), Traffic Generator, packet working process in every components. It also analyze about packet delay, packet loss and throughput.

The output of this final project expected to use for analyzing softswitch in the operated network and for planning purposes, such as specification estimation.