ABSTRACT

INTELLIGENT NETWORK IMPLEMENTATION ANALYSIS FOR PREPAID SUBSCRIBER HANDLING IN MOBILE COMMUNICATION SERVICE

PT. TELKOMSEL is one of the telecommunications operator which provides prepaid charging and postpaid charging option. The writer has done a research on parameters of the Intelligent Network (IN) equipment that can influence prepaid charging service procesess at PT. TELKOMSEL. The IN equipment is using protocol and interface so that can make a connection with another network equipment for triggering a service.

Signaling load and CPU load are parameters which needs to be monitored to know IN performance for prepaid charging process handling. These parameters influence charging and triggering process when requested service from subscribers are increased. In that condition, it ensures some acts so that service can be received by subscriber in a good quality service.

During November 2008, CPU load and signaling load of IN PT. TELKOMSEL increased over its standard. The action had been done to solved CPU load problem on November 2008 were migration of some subscriber and subscriber inventory/audit. Signaling channel rebalancing and IN increment had been done for solving the signaling load problem. Therefore, these problem solving can make PT. TELKOMSEL gives a good quality service for their customer.

Keywords : charging, prepaid, signaling load, CPU load, Intelligent Network