

## ABSTRACT

As more and more cellular operator developed in Indonesia, each operator create unique and different promotion program that offers many interesting features and gimmicks to attract subscriber. One of many promotion plans is promotion that is related to tariff or more known as "tariff war". In a matter of fact, this so-called "cheap tariff" is only applied for any call that is made between same operator or intra-operator. Unfortunately, PSTN's subscriber cannot enjoy this kind of promotion. They are still obliged to pay the tariff at relatively high rate. In this Final Project will be made an VOIP-based application system that can reduce the bill of PSTN's subscriber, especially for the corporate that has high telephone traffic toward cellular numbers.

This cellular gateway system consists of several different mobile stations with different operators that are connected into several different clients through VOIP. This system will then decide the route that will be used to call the cellular number so that the call that is made is considered as an intra-operator call. This matter arise from the fact in the real world that PSTN operators are still not be able to compete against cellular operator in a matter tariff policy. By the existence of this system it is hoped that PSTN's subscriber, especially corporate with high telephone usage can reduce its telephone bills.

In this project, we can see that telephone bills can reduce from 9,09% until 71,26% that depends of cellular operator. It can happen because the program can do intra-operator call with no PSTN network.

Keyword: VoIP, cellular, tariff, corporate