

ABSTRACT

GSM (*Global System for Mobile Communication*) cellular technology development needs an optimization in all its networks in order to enhance quality of service for its customers. One of network performance optimization that have been doing is to adjust its performance parameters.

Before taking a next step to optimize the network, first we need to know what parameters that effect the network performance. Then we can choose what the best solution to solve the problems.

This final project evaluate only the parameters that affect the performance which are CSR and CCR at Telkomsel Gambir 1 MSC in regional II of Jakarta area. CSR (*Call Setup Succes Ratio*) gives the relationship between the number of success call traffic channel seizures (TCH success) and the total number of call (Total call).

CCR (*Call Completion Ratio*) gives the relationship between the number of seizures that result in an answer and dropped cali. This project will analyze this case/phenomena and then giving some technical advices (steps) to solve the performance problems.