

ABSTRACT

KPI (Key Performance Indicator) is a group of parameters which become parameter to define whether a GSM network is good or not. Some important parameters in KPI are Event Parameters (CSSR, DCR, HSR) and Radio Parameters (RxLevel, RX Qual, SQI Timing Advance). Network provider need to consider those parameters that can change each time based on existing condition. Any mistake can cause the service quality to decrease that will bring bad impact to communication service supply. Hence, monitoring network quality should be considered. Network optimization is need to be implemented in order to repair or solve down performance in the network.

Optimization begins with performing drive test in Pandeglang for checking the RF condition in the field by the parameter decided by the company. Optimization is done to get optimal coverage are and optimal service quality around Pandeglang. Optimization process held in some steps including drive test, measuring KPI parameters, analyzing KPI parameters, until giving recommendation about network improvement.

Keyword: GSM-900, Key Performance Indicator