

ABSTRACT

Each operator of mobile communication networks , especially 3G network users are trying to provide the best service . However , in fact, found a variety of problems on the network. This can be detrimental to customers and network operators , as customers would switch network operator if the quality does not correspond to the desired

In the area of Central Jakarta frequent disturbances 3G network and the network user feels very much. Also in central Jakarta too many tall buildings that resulted in many disorders obstacle. For that it is necessary to place a test drive and do optimization.

In this final project, carried out the 3G network quality measurement using drive test measurement is performed using software TEMS Investigation 11.0.1. From the results of these measurements carried out an analysis of the bad spot. Bad spot is an area of coverage and the quality does not match the standard operator, if it is found that the optimization problems in these areas.

After optimization of the three area bad spot, The values obtained are more than -95 dBm RSCP, Ec / No more than -15 db and throughput above 33 kbps. Optimization is done by re-azimuth and tilting antenna then has been implemented and the data obtained after. values above have been met and an increase in performance, so optimization is successful.

Keywords: Drive Test, Bad spot, 3G, Optimization