

ABSTRACT

Increasing the number of users of 3G networks adversely affects the network performance. The City of Karawang decrease in network performance is often the case by several factors, including: the blank spot that is an area that does not get a signal and the shelters are problematic.

At this Final Project conducted a 3G network performance optimization in the city of Karawang. Drive test method is a way to get data 3G network conditions. Software used during the test drive is TEMS 9.0.3 Data Collection that serves for data retrieval and processing of data to measure the parameters of KPI (Key Performance Indicator), RSCP and Ec / No.

From the data results of the test drive can be optimized 3G network performance. Standard KPI to the operator 3 (HCPT) is at 98.5% CSSR, PRC Establishment Fail Rate <1%, DCR <1%, CCSR> 98.5%, HOSR 95%, RSCP> 80% and Ec / No> 70 %. 3G network performance optimization results in the city of Karawang on CSSR at 100%, RRC Establishment Fail Rate at 0%, 0% DCR, CCSR at 100%, HOSR of 100%, 98% RSCP and Ec / No 74%. Based on the comparison of data between KPI standard operator 3 (HCPT) with the results of the 3G network performance optimizations for handling blockcall, dropcall and low coverage of reach optimal performance value.

Keywords: 3G, karawang city, drive test, KPI, RSCP, Ec / No, RF, optimization