

ABSTRACT

Central Bandung area included in the populous region, where there are many businesses, entertainment venues, and so on. At this point the data access requirements are included in the basic needs so that whenever and wherever the need data access is always needed. Expected a good data access speed without any interruption of the data access speed and signal strength.

Optimization is an activity undertaken to improve performance on HSDPA. Where optimization is done to find out the performance power level received by users in Central Bandung. Data retrieval is performed after creating a route in Central Bandung area by way of a drive test with using a laptop that has installed software Test Mobile System (TEMS), Mobile as well as using Global Positioning System (GPS) to mark the location. Parameter optimization of the networks will be used, among others, RSCP, EcNo, Throughput as well as the parameters of the supporters.

After optimization of the network, there is a growing RSCP nice coverage area criteria (-85 dBm to 0 dBm) of 83.98% with average value -69.48 dBm, where previous 77.88% with average value -70.63 dBm. As well as increasing the average value of the quality criteria EcNo area nice (-11 dBm to 0 dBm) of 27.28% with an average score of -9.12dBm, where previously 21.33 % with the average value of -9.12 dBm. Thus causing an increase in the value of throughput, where initially the average throughput with the nice criteria (1000 Kbps to 14000 Kbps) of 1345 Kbps after the optimization is done be 2008.35 Kbps. From the results of the optimization is said to be successful (improve).

Keywords: Optimization, HSDPA, Throughput, RSCP, ECNO