

## ABSTRACT

*WCDMA 3G technology has evolved throughout Indonesia. Wide code-division multiple access (WCDMA) technologies that can provide a variety of additional services to users. These events prosecute the telecommunications industry to increase performance existing network. Currently each telecom operators are racing to improve the performance of the network that has been built. The increasing number of users, the limitations of cell coverage, as well as the smaller throughput values that can lead to events LTC (Low Throughput Cell) and Over Cell Capacity. To solve it is necessary that the quality of network optimization to get better with the methods Rebalance Traffic. The quality of a given operator to the customer needs to do optimization of the network to customer satisfaction with the services of the operator*

*To maintain the quality of the signal, cell capacity and data traffic so that users can experience the optimal network quality will require a method to solve the problem. Rebalance traffic is a method as a solution to overcome the problems in mobile and user traffic overload in a cell can be overcome, one of them with methods to rebalance traffic. The method serves to accelerate the time UE to handover or slow it down, so that cell that operates with the number of users exceeds the capacity does not occur Low throughput cell with the method of cell capacity is expected to meet the criteria for a good quality of service as well as the number of users in a cell does not exceed the capacity of existing.*

*After the network optimization, there is an increase of throughput value obtained by the average value of throughput which was initially 618,8769 kbps to 1105,829 kbps. Meanwhile, for its donor's opponent succeeded in reducing the traffic load with the average throughput value before the optimization obtained value 3941, 8659 kbps to 3352,7828 kbps.*

**Keywords :** *HSDPA, Throughput, Rebalance Traffic, Optimization*