

ABSTRACT

The interference in the Hotel Trans Bandung, causing the quality of the network is less than good. Interference can be caused by many factors, one is a signal other who have received besides the signal that should. The decline in the quality of tissue caused by interference would have profound effects on services provided by operators to customers.

In this final project analysis of the causes of interference and how to handle it, so as to improve the quality of LTE network in one of the largest operators in Indonesia. Interference occurs due to damage to Multi Network Combiner System devices. Handling of this interference refers to some parameters KPI (Key Performance Indicator), so that the handling is done by replacing the Multi Network Combiner System with a new device.

The result of interference handling on C_BDG872IL_HTLTRANSI cell, the value of L.U.L Interference of -110.196 dBm, Call Setup Success Rate of 99.873%, Service Drop Rate of 0.288%, Cell Downlink Average Throughput of 10.586 Mbps, Cell Uplink Average Throughput of 1.627 Mbps, User Downlink Average Throughput of 10.517 Mbps, User Uplink Average Throughput of 1.678 Mbps, Downlink Traffic Volume of 618.020,829 MB, and Uplink Traffic Volume of 84.820,019 MB.

Keywords: LTE, Indoor Interference, Key Performance Indicator