

ABSTRACT

Trans Studio Bandung Family attraction area is a holiday with family. But there are some problems that are poor access mobile services for LTE networks using the Tri (3) operator, this is evidenced by the absence of a device Indoor Building Coverage (IBC) in the region, then the data of Drivetest and Walktest results surrounding the poor Trans Studio building area, which $\leq -110\text{dBm}$ for RSRP parameters and $\leq 6\text{dB}$ for SINR Parameter due to thick material so that the signal does not penetrate properly into the room. Based on the identification of OSS data indicates an imbalance between user traffic and cell capacity that affects the quality and throughput of received network.

This final project was made using Indoor Building Coverage method in Trans Studio Bandung by using frequency 1800 MHz with bandwidth 10 MHz using Lampsite technology to improve the service and capacity and This planning simulation is done on IBwave software 6.6.4 by using the propagation model ITU-R P1238 which is the standard that has been tested by Huawei Technologies CO., LTD, with regard to the value of RSRP, SINR and Data rates parameters.

The results of the planning simulation using the Lampsite that has been specified in this final project, which is the average rating of the RSRP -68.83 dBm, SINR 22.78 dB

Keywords: *Lampsite , IBwave 6.6.4, ITU-R 1238, RSRP,SINR*