

ABSTRACT

The development of telecommunication technology that very quickly triggers people to get fast, practical and easy services. With all that was born the latest technology in the field of telecommunications is 4G-LTE Technology. Having access speed exceeds the previous technology. Users get access speed services up to 300 Mbps.

To maintain network quality, network optimization is needed. Network optimization itself can be in the form of a drive test that aims to collect network information in real terms in the field. In addition, the specific purpose of the drive test is to find out the actual coverage, network parameters, network performance, interference with neighboring cells, and looking for poor coverage.

The purpose of this report is to increase the author's soft skills and provide the author with experience in the world of work. In working on this report the author conducted research on the 4G-LTE network in the Purwokerto area by using Drivetest SSV data (Single Site Verification). By verifying on the PWT001 site. Drivetest ssv is to verify on a new site or install a new tool to determine the quality of the network before use.

The methodologies used are CSFB, Ping, Speedtest CA and NCA, attach / detach, DL UDP, Idle and dedicated. Knowing about RSRP, SINR and PCI. From all that has been done, it can be concluded that the SSV drive test is a way of retrieving data and verifying before the site is used or verifying the site that has a new installation. Usually, bad throughput occurs because the bad SINR value causes the cell to be unable to serve dominantly.

Keywords: Test Drive, Single Site Verivication (SSV), Throughput, Serving, Site PWT001