

ABSTRACT

Fiber Optics network implementation is growing rapidly because of Fiber Optics has several advantages that can transmit data faster, has a large transmission capacity, has a high level of security, and immune to electromagnetic interference. In Indonesia Fiber Optics is used as the main infrastructure network Backbone and Access and are being intensively carried out the network implementation phase at the location that has not been installed Fiber Optics in the next few years.

To support the work of network deployment Outside Plant Fiber Optics needed a reporting system that is real-time, can be used anywhere, and easy to use by the relevant authorities. It aims to facilitate the Telecommunications Operator, Field Supervisor and Project Admin in carrying out the function of controlling, monitoring, and coordination. Reporting Fiber Optics network deployment is still using manual way so maenjadi less efficient. To cope with and facilitate the parties involved in the work, made a reporting system based on Android. Thus, the parties concerned in the work more efficient in doing the controlling, monitoring, and coordination on the work network deployment Outside Plant Fiber Optic.

The test results reporting system Outside Plant Fiber Optic job has a speed in the delivery of the report amounted to 257,516 seconds. Calculation Power Budget Fiber Optic Link between manual calculation with the application obtained by 99,810965% accuracy. While the level of 0,0034315 PLB deviation calculation for planning and implementation of 0,004147. For testing Power Link Budget calculation by comparing the Optical Fiber Calculated Loss and obtained the application of 99.75846% accuracy level. So from the results obtained, the application made feasible for use in reporting network deployment jobs Outside Plant Fiber Optic.

Key words : *Outside Plant Fiber Optic, Reporting, Power Link Budget, Android*