ABSTRACT

Jaja Jumhara (2019071069)

Installation Of Metro Ethernet Gpon Network On Pt Supra Primatama

Nusantara

The Metro Ethernet network is one of the networks with IP-based devices used by Biznet which plays an important role in providing multimedia services, therefore there needs to be a switching system that can perform back-ups or control to divert network paths if a path is damaged. Using optical fiber as a transmission medium that can transmit information with a large capacity. Construction of FTTB (Fiber To The Building) using GPON technology. Based on this, an analysis of the FTTB network with GPON technology was carried out with the parameters of transmission power at the Optical Line Terminal, receiver power, fiber optic cable attenuation, connectors, passive splitters, and connections. After that, the FTTB network was developed by designing distribution channels and analyzing using the link power budget and rise time budget methods While carrying out professional work at PT Supra Primatama Jakarta, Practitioners work under the supervision and guidance of the Project Building Division Supervisor. In Internship, Student can participate and be directly involved in the implementation of the Project Building Engineer function at PT Supra Primatama Nusantara Jakarta such as Migration of network equipment, termination of Fiber Optic cables and running Flow Projects in accordance with applicable SOPs.

NGUNAR

Keywords: Metro ethernet, fiber optic, GPON