ABSTRACT

The development of communication networks was born from the need for users to stay connected with relatives and family wherever they are. Network development is continuously carried out in Indonesia to increase bandwidth capacity in order to improve network services throughout Indonesia. Of all existing media transmissions, fiber optic is one of the most widely used options to support communication network services. One of the most widely used fiber optic technologies is Fiber to the Home (FTTH). Fiber to the Home (FTTH) is an architecture of fiber optic technology that sends information or data from service providers to users. FTTH also does not escape several supporting aspects to build an architecture that can be used by customers. Some of the supporters of the FTTH architecture include Optical Distribution Frame (ODF), Optical Line Terminal (OLT), Optical Distribution Cabinet (ODC), Optical Distribution Point (ODP), and Optical Network Terminal (ONT). From the above sections, of course, FTTH also requires maintenance and repairs to maintain the quality and quantity of its network services. The author carried out the Field Work Practice and received the mandate to participate in carrying out maintenance and repairs on the FTTH network. The purpose of maintenance and repair is to take care of every part of the FTTH architecture so that there is no damage that can interfere with network services and to repair anything that is damaged or cannot be reused, so that users can continue to use network services properly.

Keywords: Fiber to the Home (FTTH), ODP, ONT, and Fiber Optic.