

ABSTRAC

Implementation of V5.X Interface at PT TELKOM, specially V5.2, making side of Access Network (AN) becoming good flexible in election of peripheral and also design, because V5.2 have the open interface character. With implementation of V5.2 Interface hence peripheral konsentrator having the character of proprietary (base on one vendor) such as DLU, RSU, RISLU and others can be replaced by peripheral CT (Central Terminal) and ONU (Optical Network Unit) that open standart with support of media of fiber optic so that lessen depend on to certain vendor

The existing Access Network of Optical Fiber at UPRN III Bandung still based of PDH transmission. The lacking of PDH Transmission for example flexibility in affiliation accelerate beet, level of availability, in development, if there is New development ONU and also be happened inefficient of transmission capacities (extravagance) of fiber optic that used, so that need existence reconfiguration to SDH transmission that expected can give solution for the problems, besides perhaps the especial reason of reconfiguration is as infrastructure in accomodating requirement of non POTS (Internet And Multimedia) progressively mount at coming period.

In process of reconfiguration here take 3 location of case study at service area of UPRN II Bandung, that is STO Centrum, STO A.Yani And STO Dago, from totalizeing 10 STO which have based on PDH. After done forecasting demand of POTS, ISDN, Internet and service Multimedia, yielded the Requirement BW untill 2010 to each STO: 20738 x 64 Kbps (Centrum), 16176 x 64 Kbps (A.Yani), and 11406 x 64 Kbps (Dago), and for each STO also Divisible to 4 ring STM-4 (Centrum), 3 ring STM-4 and 1 ring STM 1 (A.Yani) and also 2 ring STM-4 and 2 ring 1 (Dago). In this final paper also provided with estimation of peripheral requirement (ONU And Card) and also re-allocation of Interface V5.2 requirement.

Keyword : Open Interface, PDH, SDH, Rekonfiguration, Ring