

ABSTRACT

Technology Development in the telecommunication word recently is progressive. Objective of application of this technology are to give a better quality of service and to be a place to develop quantity of costumer. Beside that, now the bandwidth necessary is more increase so require network give service in broadband. PT TELKOM as network provider have done regeneration project HDSL network become full optic although the first goal is increase telecommunication service performance, nevertheless in operation for disturbance diminish by HDSL this case congruent with PT TELKOM FO- NISASI project: TT.10. No : 01 / DINTEK / 30/ 2002.

Optic network in FTTH architecture in Bandung Centrum is full optic from central office to user. In this planning use PON technology the configuration is point to multipoint. The advantage is use passive splitter. In this final Project undertake survey location for mapping total of user applicant for FTTH. From This survey the user applicant are 30. And service demand is more than 2Mbps internet data. And Then, account bandwidth necessary for user applicant and the process is assuming application FTTH user so the necessary bandwidth in this planning is 103 Mbps. OLT have 32 interface data for attending FTTH user. The location PS in RK FO and OAN the function for easy maintain.

From this analysis quality of service for this planning system power link budget still proper with -39.223 dBm, beside that the margin system is 0.777dB so this system is proper. Rise time Budget use NRZ coding. And the financial for user applicant between \$200 until \$400, this is very expensive because ONU located in user. So, the target market FTTH network is cooperate business certainly high bandwidth necessary.