

ABSTRACT

Nowadays PT. Telkom Kandatel Bandung develop capacity telephone network by implement ADSL technology with name Telkom Speedy. This is advantages for centrals who use copper wire but disadvantages for centrals who use fiber optic wire in primer line to optical network unit because DSLAM equipment only use in copper wire network only.

Because of that require demand estimate ADSL (internet access) service and pay tv service in optical access network for residential and corporate categories. After that estimate we can look for bandwidth requirement for each service. Equipment in optical access network and ADSL network able to connect need reconfiguration for each equipment too.

For residential respondent bandwidth internet access is 1,391 Mbps with growth and 944 Mbps with polynomial. Bandwidth pay tv is 5,975 Mbps with growth and 5,688 Mbps with polynomial. For corporate respondent bandwidth internet access is 2,449 Mbps with growth and 1,661 Mbps with polynomial. Bandwidth pay tv is 5,073 Mbps with growth and 4,836 Mbps with polynomial.

From internet access service demand estimate we know how to get bandwidth requirement for residential and corporate category. Although we got pay tv service bandwidth, PT. Telkom not yet apply this service. Form equipment and network analysis in optical access network that Huawei optic equipment able to connect to DSLAM ZTE equipment pass through GigaEthernet line with additional specific cards.

Key word: *Asymmetric Digital Subscriber Line, ONU, DSLAM, Optical Access Network.*