

ABSTRACT

ADSL2+ (Asymmetric Digital Subscriber Line 2+) is one of the technologies that are serving a fast access, high mobility, and wide bandwidth. ADSL2+ is designed for broadband service by optimizing usual fixed line become a high-speed digital line for fast internet access. This technology has the capability to double the maximum frequency for downstream data transmission from 1.1 Mhz to become 2.2 MHz. Maximum data rate can reach until 24 Mbps for downstream and 1 Mbps for upstream, while the amount will reduced linearly with the distance between DSLAM and client. IPTV is one of the service provided by this technology.

In this final project the measurement will be done to gain parameter of existing coaxial access for IPTV service which is seen by the distance and measurement for required electrical parameter. Whereas the parameter which will be measured are continuity, attenuation line, isolation resistance, S/N, unbalance resistance and longitudinal balance.

In this final project, we can conclude that in the condition of ADSL2+ existing network there are proper line and improper line, because of the distance, unbalance resistance and longitudinal outside threshold. To solve the unsuitability in the network condition, modernization or rehabilitation need to be done suitably according to the Telkom Corporation standards. Therefore the IPTV can be implemented in that network.