

ABSTRACT

The transition from PSTN to Next Generation Network (NGN) need support from access network which have broadband ability. Most of the PSTN access network in PT. Telkom use copper access, and the first desain of it only able to serve the narrow band (only voice and low speed data). And one of technology for increasing the ability of copper access is Asymmetric Digital Subscriber Line (ADSL). In case, the problem is distance of copper cables from central to user, most of them have ability better than ADSL. But, to solve it, the DSLAM placed near user location with Remote DSLAM (R-DSLAM) and between central and R-DSLAM use fiber optic Multi Service Optical Access Network (MSOAN).

In this final project, measuring and transmission parameter analysis were done and compared with theoretic summary for voice, data, and video service to some distance with take a sample PCP RG that placed in STO DAGO.

Finally, from the measurement result and analysis can found that PCP which one fullfil ideal PCP for broadband service implementation is RG. From the overall electric specification analysis result that found it can, conclude that the condition is suitable for broadband service implementation

Keywords : Broadband, Remote DSLAM, MSOAN Technology.