ABSTRACT

ADSL represent a technology of xDSL modem with transmission mode of asimetrik

to channel digital data service and POTS (Plain Old Telephone System) concurrently by

using 1 copper cable. With this technology, speed of data transmission (moment of

upload and of download) can be adapted by requirement. This technology applied to use

user telephone copper cable network. So that can use this technology at home, user phne

channel have to be attributed to a splitter and central of telephone which have been

provided with module of ADSL called DSLAM (Digital Subscriber Line Access

Multiplexer).

The growth of ADSL technology fast so. Telkom as a telecommunications service

have given service of ADSL to the user in the form of service of Speedy. This Service

exploit network phone which have been owned by the user. With this service, user can

enjoy various facility able to be obtained from technology of ADSL like video on

demand, video of teleconferencing, and also high speed internet access.

Campus of STT Telkom have been performed by Cooper Access Network woke up

by PT. Telkom in the year 1995. But untapped effectively/optimal. The Cooper Access

Network not yet incircuit with the central of telephone. To maximize usage of acess,

hence this final project applied and realized a network that able to give service of

ADSL. This Network Design started with central activation of the PABX, installation

peripheral of DSLAM, last is development the central connective cable network of

PABX (Private Branch Exchange) with consumer. With scheme of network later

application like video of on demand, video of teleconferencing, and also service of high

access internet speed can be applied.

Key words: ADSL, DSLAM, modem, splitter.

iii