

## ABSTRACT

In this day the advancement of telecommunication technology is too rapid, where people can use telecommunication tools in almost of this world. One of the telecommunication tools is telephone with central telecommunication function, where two or more people can talk each other. Every central telecommunication determine different rates for local line, interlocal line, and international line. However the telecommunication technology grow up, there are some telecommunications interference and damage happen.

The solutions of them, especially for the responsive, fast, and effective prevention telecommunication network installation , must be filled. One of the solutions is upgrade the performance of telephone equipment, which has been commonly knowed by the Terminal Block (TB). This is a connection points of the outdoor channel with the indoor channel. It is used for localization of the position disturbance by opening the clamp bolt of the conections and then test and measure the position of the disturbance wheter it is in indoor or outdoor channel.

In this final project will be developed the Terminal Block (TB) with passive character into an active terminal block, so it can provide more function to facilitate the process of tracking disorder. By using the Active Terminal Block, analysis position of the disturbance can be done without checking directly to the customer's home, but using the results analysis that customer reported. It makes the position of the disturbance can be determined quickly and accurately too while also can be determined the limit of handling disturbances responsibility. It makes the telecommunication network performance also improved.

Keywords : The Use of Terminal Block Aktive (TBA) as the detection of damage to the telephone network