

ABSTRACT

Telecommunication demands increase together with information technology (IT) development. In fulfilling those demands, there are a lot of hampers, which are caused by limited cable network, particularly in rural area, that the cable network is not available yet.

WLL is an alternative technology which is chosen to cover the limited cable network in order to meet the telecommunication demands. Another reason why WLL is chosen as an alternative technology, is based on the IT development which has been used in many fields. The use of WLL is so flexible because WLL is easy to be developed unless the communication demands increase rapidly.

To compete with other telecommunication technology, WLL should make a good service. Disturbance, which appears in WLL, should be minimized.

The disturbance is caused by many factors, such as transmission, disturbance caused by bad wave propagation in receiver and fluctuation power supply; another factor is damaging device, etc. These disturbances not only harm user but also operator, who develop telecommunication services, because the disturbances reduce the meter pulse.

This final project will expound those factors, also the way out in solving those problems so that the disturbance can be minimized.