

ABSTRACT

Configuraton of network Wireless divided to become two that is infrastructure mode and mode without insfrastruktur (ad-hoc). Infrastructure Mode require a special peripheral or earn functioned as access point and also broader coverage area. mode Ad-Hoc represent corps from some node forming network whereas without previous insfrastruktur. Every node own wireless interface and communicate with radio media. The Wireless interface can be in the form of USB WLAN (Unit Serial Bus Wireless Local Area Network). This Mode is very good for moment need swiftly a network work without cable at the price of cheap since not need access point as link to user. This Jaringan swiftly earn develop;builted to support requirement which emergency such as for the sudden meeting where each;every member earn to change over data swiftly, natural disaster and also for the military application. However feebleness from this mode finite reach that is about 50 m in comparison with the infrastructure mode. Therefore the used antenna; modification need so that the reach will maximum.

In this final project will be modification of fairish antenna; monopole minimize to increase reach of ad-hoc mode where antenna minimize from USB WLAN to hole which have been made in can. With including antenna minimize the into can hence all transmitted to sinyal aim to one way so that apart range wanted farther.

From obtained to be measurement result of antenna with specification coming near scheme specification and also with can addition from antenna of USB WLAN obtained compared to broader coverage area USB WLAN without can where from this measurement is difference apart obtained range is equal to 100 m.

Keyword : ad-hoc, WLAN, USB WLAN