

## ABSTRACT

Nowadays, wireless technology for LAN (*Local Area Network*) which is used by Indonesia is already use air as the main media for transmission. This technology called *Wireless LAN*.

*Wireless LAN* used at Indonesia has already reaches frequency 2,4 GHz. With the technology progress and the growing of user's demand for better communication technologies, the need of better wireless LAN technology, which sometimes mean higher frequency, is undeniable urgent.

In this information era, one of the *wireless LAN* technology that already offered is Orinoco's product, WaveLAN, which is implementation of wireless technology that use IEEE 802.11 standard protocol. This wireless technology has a high speed capability at 1, 2 and 11 Mbps, respectively (nowadays IEEE 802.11 standard protocol hasn't support 11 Mbps data speed). The other advantage of WaveLAN is larger bandwidth which can send various data such as voice and image at the same time. This bit rate is ideal for multimedia communication .

In this Final Project will be discuss about wireless LAN technology with 2.4 GHz and JRC product, FWA 22 GHz frequency. Because of wireless LAN technology with 22 GHz frequency hasn't applied at Indonesia, this Final Project will do research about compatibility of this product if it applied at Indonesia, the result is to find the better wireless LAN technology between WaveLAN 2.4 GHz and JRC FWA P-P 22 GHz to be applied at Indonesia.