ABSTRAK

Di Indonesia, pengguna internet berbasis teknologi Wi-Fi sudah mulai meningkat di beberapa kota besar. Di Jakarta, misalnya para pengguna internet dapat *browsing* sambil menunggu pesawat *take off* di ruang tunggu/*boarding lounge* bandara sudah bukan merupakan hal yang asing lagi. Dimana hal itu dapat mengurangi kebosanan penumpang yang sedang menunggu pesawat untuk berangkat maupun menunggu barang bagasi melewati *conveyor*.

Maka dari itu, bandara berstandar kelas dunia harus menyediakan fasilitas *free internet* dengan teknologi Wi-Fi tanpa bayar atau *free of charge*, pengguna jasa hanya meng"*Accept*" dan "*Wi-Fi On*" dengan kekuatan sinyal yang menjangkau seluruh area bandara. Pada tugas akhir ini dilakukan pengimplementasian fasilitas *free internet* serta dilakukan analisis terhadap kekuatan sinyalnya. Dengan metodologi penelitian mengukur pertumbuhan penumpang, konfigurasi penambahan *access point* dan mengukur *bandwidth* pada penggunaan *access point*.

Penambahan *access point* di Area Terminal 3 untuk sinyal Wi-Fi dapat meningkatkan pelayanan *free internet* untuk pengguna jasa bandara. Hal ini ditandai dengan menganalisa hasil kualitas kekuatan sinyal Wi-Fi pada area *Check in, Boarding Lounge* & *Arrival* Terminal 3 setelah dilakukan implementasi pola radiasi sinyal Wi-Fi. Diharapkan dapat meningkatkan nilai CSI (*Customer Services Index).*

Kata Kunci : Wi-Fi, *Free Internet, Access Point*

ABSTRACT

In Indonesia, the internet user based Wi-Fi technology has already started to rise in several major aties. In Jakarta, for example the internet users can browse while waiting for a plane take off at the airport lounges already in not foreign thing again. Where it can reduce boredom of passengers who were waiting to leave and wait for luggage pass through the conveyor.

Thus, the world class standart of the airport should provide free internet with Wi-Fi technology without pay or free of charge, customers only click accept and Wi-Fi On with the strenght of the signal reaching the entire airport area. On this final project done implementation facilities free internet as well as conducted an analysis of signal strenght. By measuring the research methodology passenger growth, the addition of the access point configuration and measure the bandwidth on the use of the access point.

The addition of an access point in the area of Terminal 3 for the Wi-Fi signal can increase the free internet service for airport service users, it is characterized by increasing the quality of the Wi-Fi signal strength in the area of Check-in, Boarding Lounge & Arrival Terminal 3 after the implementation. As well as expected can increase the value of CSI (Customer Services Index).

Password : Wi-Fi, Free Internet, Access Point