

ABSTRAK

Sesuai dengan regulasi yang berlaku, layanan wi-fi onboard hanya dapat digunakan saat pesawat berada di ketinggian di atas 10 ribu kaki, untuk aktivitas browsing internet, social network, e-mail dan instan messaging. Layanan tersebut tidak diperkenankan untuk diaktivasi dan digunakan pada pesawat dalam posisi taxi, take off dan landing. Dalam rancang sistemnya wi-fi on board ada dibawah naungan OnAir sebagai provider atau penyedia layanan internet untuk pesawat airbus seri 330. Dalam sistemnya implementasi wifi didalam pesawat terkoneksi secara line of side dengan satelit services provider. Airline network architectur v2 system (ALNA) sistem adalah sistem yang digunakan sebagai dasar rancang sistem untuk mengimplementasikan layanan wi-fi didalam pesawat airbus 330. Cabin Wireless LAN Unit (CWLU) adalah titik akses wi-fi penumpang untuk menghubungkan laptop dan smart phones nirkabel ke ALNAv2-System. Line Leaky Antena diinstal melalui seluruh kabin. Leaky line antena sebagai media transmisi sinyal dari Cabin Wirelles Lan Unit (CWLU) yang letaknya terdapat di rak ALNAv2 sistem dibawah cockpit sampai dengan ke pengguna atau user. penumpang dapat mengakses internet dengan paket data sebesar 3MB-25MB per paketnya dengan alokasi bandwith yang telah di tentukan pada setiap kelasnya dengan hasil kecepatan hingga 1710 - 1785 MHz uplink dan 1805 - 1880 MHz downlink

Kata kunci : Wifi On Board, ALNA System, CWLU, Leaky Line Antena

ABSTRACT

Based on the applicable regulations, the wifi service only be be used when the aircraft at an altitude above 10 thousand feet, for internet browsing activities, social networks, e-mail and instant messaging. These services are not allowed to be activated and be used OnAircraft in the taxiing position, take off and landing. In designing the system wifi on board was under the auspices of OnAir as a provider or internet service provider for Airbus aircraft series 330. In the implementation of wifi system on board connected to the side line of satellite services provider. Airline network architectur v2 system (Alna) system is a system used as the basis for implementing system design wifi service on board airbus 330. Cabin Wireless LAN Unit (CWLU) is Wi-Fi access points for passengers to connect the laptop and Smart Phones wirelessly to the ALNAv2-System Leaky Line Antenna are installed through the whole of cabin. Leaky line antenna as a signal transmission medium from Cabin Wirelles Lan Unit (CWLU) which is located there on the rack system ALNAv2 under the cockpit up to the user or to the user. Passengers can access the internet with 3MB of data packet-25MB per package with the allocation of bandwidth that has been set in each class with the results of speeds up to 1710-1785 MHz uplink and 1805-1880 MHz downlink. Keywords: Wifi On Board, ALNA System, CWLU, Leaky Line Antena