

ABSTRACT

The development and convergency of telecommunication, broadcasting and information technology produce multimedia technology quickly with many applications and services, broadband and high rate. The requirement of multimedia is used for adding bandwidth and rate implementation. Using technology terrestrial non ground is the rational solution, it is called the dirgantara super platform on 20-50 Km, HAPS (High Altitude Platform station). In sellular communication system, HAPS can funtion as repeater or Base Station Transceiver (BTS) on stratosfer coat.

In this final project explained about analize the implementation CDMA 2000 on the HAPS technology, study case in Jabotabek area. Because the area has the high traffic. Analize is started by planning the HAPS network. Parameter of planning consist of coverage area, frequency alocation, sell planning, characteristic technic of HAPS antenna and capacity of user for each cells. Eligibility of this HAPS network, is seen from some aspect, such as traffic requirement in the area, so HAPS network can be effective or not. Beside that, power link budget aspect and maintenance are attentioned too.

From analize, we can conclude that not all the Jabotabek area can be serviced, they are boundary Bekasi, Tangerang and Bogor. Because the number of user in every area is not same, so the planning is not optimum. If the position of user is far from HAPS point center, cause the loss that is provided also is big, then the link quality is bad.