

ABSTRACT

The growth of telecommunication technology at the moment is so quickly along with the necessity of information which also excelsior. So also with the trend growth in wireless telecommunications Started from early generation with AMPS system, then round into GSM system and then expand again become CDMA system that have many excellence compared to its predecessor technology.

In this Final Project will be discussed about network planning base on CDMA2000-1X in Solo area which is applied as fixed wireless. Which in this plan will use the frequency allocation that owned by PT. Telkom that is 5 MHz at 800 MHz. In this planning, especially will be focussed on radio core network planning that is one part which responsible for connection between mobile station and base station.

Process of this network planning cover the traffic estimation that offered to system base on the user penetration and service type given, link budget parameter calculation, maximum channel capacity calculation, calculation of the required cell, and calculation of required base station and mobile station power transmit. Then from the planning result will be analized to obtain an optimal planning result.