

ABSTRACT

Improvement on telecommunication world has been so sophisticated, that affected all live aspects on community for an increased live services, includes in telecommunication. Recently, CDMA system is one of the most improved sector, especially in Indonesia.

CDMA provides big spectrum efficiency, huge capacity, voice quality and data rate. CDMA2000 1x cellular system becomes one of example for new technology which is suitable for voice and data with bit rate until 153.6 Kbps and had been improved by some cellular operators. Reverse and forward signal propagation had been faced with many troubles such as the existences of big building, trees, etc.

This final project will explain and analyze availability of link propagation between BS and MS on CDMA2000 1x network, especially in Bandung's Telkom Flexi. Each BS has different morphology, and the analization depend to the type of its morphology.

Beside that, on this final project, there will be simulation in order to help the calculations which is specialized for calculating and planning the CDMA path loss link propagation defined for each equipment. Besides that, geographic information system will be made for all BTS located in Bandung. Informations that could be viewed are location, name and position on earth coordinate of BTS.