

ABSTRACT

As long as cellular technology growth in Indonesian, in this time cellular technology in CDMA 2000 1X have started to come in Indonesian segment market. Based on its generation, technology of CDMA 2000 1X constitute evolution from CDMA 2000 1X, classified as 3G cellular technology with bandwidth 1.25 Mhz. Growing and using CDMA multiple access technique in cellular communication necessities. The capacity channel of cellular system that have realized limitation, so that cause handover failure.

Failure handover process is caused by transmission mistake from forward link and reverse link. In usually often happened mistake from reverse link. In this final project only discuss about reverse link with focus in channel limitation and Reverse Link Budget from transmission segment.

Some of parameters that will be discussed in this final project consist of Reverse Link Budget (RSL), Energy per Bit to Noise ratio (E_b/N_o), Power Control in reverse link and traffic voice. From this observation can be known about handover failure causing from transmission section and traffic voice to some of cell site between two adjacent BTS from reverse link.

Key words : Handover, E_b/N_o , RSL, traffic, CDMA 2000 1X