

ABSTRACT

CDMA2000 system uses two kind of soft handoff algorithm to change pilot received by unit mobile into specific set, which is static threshold algorithm and dynamic threshold algorithm. Unit mobile measures the level of E_c/I_o of pilot and compares it with soft handoff parameters gave by base station. The changing of soft handoff parameters will give effect to the system performance.

The effect of changing of soft handoff parameters will be analyzed in the forward link direction, because capacity in this link is influenced by unit mobile distribution in soft handoff area [4]. By determining soft handoff parameters in CDMA2000 systems such as add threshold (T_ADD , $ADD_INTERCEPT$) and drop threshold (T_DROP , $DROP_INTERCEPT$), it is possible to determine soft handoff parameters which will give optimum performance, shown by gain capacity (soft handoff gain).

Keywords : CDMA2000, soft handoff, soft handoff parameter