

## ABSTRACT

Wideband Code Division Multiple Access (WCDMA) technology is a multiple access technology for high speed digital technology user. In WCDMA network, soft handover happened which can make possibility for 2 cell (former cell and new cell) in the same frequent can communicate. Thus announced of WCDMA as global standard for 3G, hopefully can increased of used and implementation to soft handover.

There are several caused of handover failed, as RF condition and network, low power received by MS, unqualified Eb/No and large of probability value in above standard blocking, and neighbor cell list. We should observe parameter to improve quality of handover, such as Eb/No, RSCP, and planning of suitable neighbor cell list.

With this way, it can make easier to analyze based on basic cell parameter, result of drive test and standar KPI from operator. The result of RSCP dan EcNo for this parameter are  $\geq 95\%$ . For CSSR parameter is  $> 99\%$  and CDR is  $< 1\%$ , Handover Success Rate the percentage is 97,91% not qualified for KPI standart is  $>98\%$ . All the parameter is based on KPI.

Key Word : *WCDMA, Handover, Soft handover, Neighbor cell list.*