

ABSTRACT

By development of service and promotion that given by cellular communication operators based on *Code Division Multiple Access* (CDMA) technology, so the users of the operators are getting increase, besides from business side, many new operators is rising to become rival, until the satisfaction of customers becomes important parameter on attention, in order to customers don't face to other rival. for abilities in giving good service, needed network that has good performance, from quality although capacity from BTS as good interface for transmit although receive between MS and BSC, so it can decrease call drop and blocking with increase the call success.

This research discusses about maximum performance network and analysis of CDMA 2000-1x flexi network operator at jakarta. the increasing performance of network needed in based by analysis of measure drive test data. the data that analyzed include Ec/Io, Forward FER, call drop, call success, and handoff. so it need software post processing tools, this software used by engineers to see and process the data, so it can analyzed very well.

the analysis result aims to give solution and recommendation of network performance problem, the solution like optimum process at RAN, that is side between BTS and MS like changes the antenna direction, the building of new BTS and modification BSS parameter. the expectation of optimum result is decrease the problem in RAN network performance like drop call, Blocking, pilot pollution, and increase the satisfaction of customers.