

## ABSTRACT

Along with the development and promotion services provided by the service-based mobile telecommunications 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 final task of the Optimization New Site Inter-BSC Border Area CDMA 2000 1X Network Study Case Telkom Flexi Bandung. Network optimization based on the data analysis results and measurement data from drivetest Telkom Flexi Bandung . the data that analyzed include  $E_c/I_o$ , 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*, *handoff failure*, *poor coverage dan pilot pollution*. This can be achieved by looking at the optimization parameters of the RAN (Radio Access Network) as *ForwardFER*, MTP, MRP,  $E_c / I_o$ , *Call Drop* and CSSR in accordance with standard KPI (Key Performance Indicators) are determined by Telkom Flexi.