

## ABSTRACT

Nowadays, the necessary of communication on public society have have progressively increase. Size of capacity hold an important role, then the company as well as operator of mobile communication face a certain problem such as the increasing of client which using same frequency. CDMA (Code Division Multiple Access) as third Generation (3G) information technology until the development of CDMA2000 1x is expected can accommodate various of high speed data packet service at network and frequency allocation which already have. For this technology transition, of course need a very ripe network planning so can produce an optimal quality.

This Final Task is a development of software from previous Final Task. This software is more dynamic than before, because it can be used for various region and if there are the network development such as district change or amount of traffic, can be replaceable without having to change the source code. This software design CDMA2000 1x network with 2 mode, there are based on traffic an coverage area. And also network parameters which have more spicific from previous software.

To tes the validity of this software, the writer use datas which obtained from operator Mobile 8 Bandung and TelkomFlexi Cirebon which use CDMA2000 1x as base network from previous Final Task as a case study. So from the result represent the CDMA2000 1x network on that region. And from these result are not represent the comparison between region, but to obtain an optimal software of CDMA2000 1x network planning.

**Keywords:** Development of software, CDMA2000 1x Network Planning which be more dynamic and optimal.