ABSTRACT

Mobile-8 represent one of operator of network of seluler CDMA 2000 1x biggest in Indonesia using frequency 800 Mhz Band " B", what supported by Samsung Telecommunication as vendor in the case of peripheral BTS, BSC, and MSC. One of peripheral of BTS Samsung Weared by Mobile 8 [is] BTS (SCBS-408L). SCBS-408L equipment represent BTS in network functioning to connect CDMA 2000 1X to Mobile Station (MS) below/under control BSC (Base Station Controller).

The SCBS-408L uses ATM technology to communicate with the BSC. The ATM communication protocol adds the addressed overhead bit to every message so as to use the limited links efficiently. Moreover, it uses the E1/T1 links to interface with the BSC.

In this final duty, studying the way of job of every block in BTS (SCBS-408L), and also analyse about performance BTS (SCBS-408L) at celuller CDMA 2000 1X network covering analysis to BTS-MS connection and BTS-BSC connection. So got a solution to make peripheral BTS (SCBS-408L) earn to work more optimal. Performance for BTS-MS connection is covering MAPL (Maximum Allowable Path Loss) for link instruct reverse and link instruct forward, radius of cell and result drive test medium of BTS-BSC connection is traffic performance from daily traffic covering drop call rate, complete call rate, success call rate and BTS Load.

Result of anaiysis of link propagasi show the happening of overlapping usher cell which if abundant earn to cause the happening of dropcall. While at analysis traffic, site banjaran own highest storey level dropcall. For deive test analysis show district which there be still not yet been served better