

## ABSTRACT

Code Division Multiple Access (CDMA) introduced as cellular system with high capacities. This technology can anticipate increasing requirement of using capacities in the future and able to co-existence with other system without experiencing of trouble meaning to both system. CDMA have drawn attention to researchers for the high capacities which is used at system cellular. In the other hand, high density traffic forces all operators to make smaller cell. Thereby, micro-cell is used at high density area. The ability of micro-cell provides high capacities compared with macro-cell per unit area also interesting and become special characteristic in 3G mobile radio systems.

At this final task, farther be checked by how dimensioning of network channel at cellular hierarchy system especially in Bandung area. In overload condition expected micro-cell and macro-cell using different frequency channel to decrease co-channel interference.

Method that used at this final task is research in exploration and application. Expected output form this final task is improvement of system capacities, in the other hand addition of microcellular algorithm at overload cell traffic, this overload can be handled. Micro cell planning will give effective solution in order to increase traffic capacity in the cells which need increasing of traffic channel.