

## ABSTRACT

The growth of telecommunication very rapidly. Everyone in the world is no one does need to communicate. This communication can be directly with face to face or far apart then is able to use. Communicate with this set of tools called telecommunication. Increasing technology influenced the development of the world on telecommunication scope. On the mobile communication or mobile technology called this development brings a very drastic change. First, the technology of Amps on 1 Generation to 4 Generation to the continuously evolving.

4 Generation is a new technology in communication cellular. This 4G technology is a new technology in communication cellular. This technology is already able to data services, either in the form of pictures or video teleconference service, many user use this service affects the design of the device. Among the areas that are dense with the little user

Here would like to make 4 Generation technology design here LTE for choose for design in the area in Bandung using simulation software Atoll. Calculate how many user are using the service, and set a lot of e-nodeB to be able to serve all users performance but stick with the design that takes into account how much the maximum capacity of user can use the service so that the service had a maximum.

*Key words : Atoll , eNode-B, LTE*