ABSTRACT

Nowdays, people increasingly required to always have a high mobility in the work affect the development of technology. With the rapid of technology developments, it also required the rapid technology to compensate. Similarly, the development of the telecommunications world that existed at the moment, people do not want any interruption in communication, especially in the delivery of data, both in the network and internet.

This makes the telecommunication service providers are competing to provide the best service for its customers. Development of information technology resulted in many emerging new technologies that support the need for greater throughput in a cheapest cost. One of technological development in particular areas in CDMA cellular systems that used load balancing where high volumes of traffic on a site that is handled by one NodeB neighbor will be distributed at the NodeB so as to minimize the possibility of overload, optimize network utilities and still be able to maintain QoS guarantees to users.

At this final project, the process will be simulated at high traffic for load balancing in CDMA EVDO Advanced network which is the development of the CDMA 2000 1x EVDO Rev-B.

Keyword : load balancing, throughput, EVDO Advanced