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