

ABSTRACT

Nowadays the need of wireless data service is growing up. To accommodate that need, CDMA provider has cellular system modification like IS-95B and CDMA 2000-1x (IS-2000). CDMA EVDO is an evolution from CDMA-1x technology. One of advantages of CDMA 2000 1x EV-DO is a high transfer data rate which raises up to 2,408 mega bit per second. This rate is 37 times faster than GPRS data transfer rate which only have values of 64 kilo bit per second.

In this final project, analysis of throughput and delay end to end data access CDMA2000 1x EV-DO for high speed service is being explored.

The simulation shows table and graph that can be analyzed to get data like delay and throughput.

Higher data rate causes total delay decreases and higher utilization causes total delay increases. The size of packet data must be reduced if the total delay is considered low. Throughput can be increased when 0.05 utilization value has higher data rate. Throughput also can be higher when the size of packet data is being expanded.

Keywords: CDMA 2000 1x EV-DO, delay, throughput, data rate