

## **ABSTRACT**

The rapid growth of information and communication technology today, aim to the wireless internet access with any services like downloading, video streaming and video conferencing, it offers high data rate and high capacity. CDMA 1xEV-DO (Evolution-Data Only) at the CDMA 2000 1x network existing is a technology solution to overcome that problem. CDMA 2000 1xEV-DO is evolution from CDMA 2000 1x 2,5 generation especially for packet data service. This system used to internet application and other multimedia with more satisfy because this system have average data throughput to the 2.45 Mbps.

The Problem condition will appear at CDMA 2000 1xEV-DO is bandwidth limited to accommodate high data rate service, so the impact of that problem is total user more limited to access network system.

In the last task focus at estimation CDMA 1xEV-DO reverse link, with mapping at Bandung city, so from that map obtain coverage area service prediction. The purpose study of 1xEV-DO is support to user demand estimation, coverage area (radius) size, link budget and channel capacity decided to total user with traffic comparative used, erlang-B and erlang-C, so in this analysis obtained for effective data rate is 76.8 kbps as data traffic and user consideration in each cell area.