

## **ABSTRACT**

EV-DO technology is a cellular communication system that more advance with higher data rate than older CDMA system. CDMA 2000 1x EV-DO can provide data rate up to 2.4 Mbps, with mobile throughput up to 700 kbps. This capacity almost equal with DSL (Digital Subscriber Line) capability which is used in wireline and fiber optic network that will be very appropriate for video streaming application.

On this final task will be done QoS (Quality of Service) analysis of EV-DO services. Operator that still doing trial of the technology is Flexi service from PT.TELKOM, so analisis that would be done using data from that company. Things that would be analysed are Data Rate, C/I Forward, C/I Reverse, Delay, count of user, BTS Throughput and user Throughput.

As a comparison the writer has made a simulation program. Simulation program is using some assumption that similar with real condition. The outputs from simulation program are data of QoS from EV-DO service. And then it would be compared with the data from measurement. Analysist would show how good is the QoS of EV-DO service.

Key word: EV-DO, QoS, Data Rate, Throughput, C/I, Delay

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