

ABSTRACT

CDMA2000-1X represent one of technology standard of seluler having high efficiency spectrum and able to provide greater capacities. Technology which commercially have ready to be applied able to give service voice and data with speed of up to 114 kbps.

One of data service from system CDMA2000-1X is short message service (SMS). SMS represent service of message delivery shorten, as long as 160 character and represent one of effective communications alternative with cheap cost. This service occupy highest level from consumer feature given by mobile communications operator. Although be limited by character amount, but SMS exist to be trend of because cheap implementation cost, and especially the cost for service voice more and more high.

At this final project study to understand about performance from applying SMS base on CDMA2000-1X in Area Fixed Wireless Telkom South Jakarta, where observasion done accord to data trafik in October 2003. Used to data trafik represent data of trafik SMS of entire DFW of West Area Covering Jakarta, Medan, Batam, Palembang, Bogor And Bandung. Point-point Supporting calculation of parameter performance to cover network configuraton, layer-layer of SMS and Mechanism from system SMS. Used Parameter to measure system stability cover intensity trafik, successful prosentase, failure prosentase, (holding time), successfulness of delivery SMS every area and distribution of consumer SMS every area from applying SMS base on CDMA2000-1X in Area Fixed Wireless Telkom South Jakarta.