

ABSTRACT

TELKOM Flexi was the one of the wireless telecommunication operator based on CDMA 2000 1X Technology developed by fixed wireless network division of PT. TELKOM Indonesia. Regarding CDMA 2000 1X Technology, TELKOM Flexi can give voice and data communication with speed rate up to 153.6 Kbps.

Every operator wishes to give optimal services especially in busy hour condition. As a big operator that have so many user caused channel capacity can not accommodate all user to communicate, so problem appears that usually happens such as blocking and high interference that caused call drop ratio percentage higher than the key performance indicator.

From traffic pattern analysis at East Bandung BTS got average value for data services during October 2008 there are SCR (94,04% < 96%) and CDR (3,9% > 2%) where total call attempt average is 420 call/day. Both parameter value notice that data services at East Bandung BTS unstable cause SCR and CDR value still below the key performance indicator.

Traffic pattern voice services analysis got average value SCR(97,75% > 96%), CDR (4,38% > 2%), MHTS (0,067 minute < 1 minute), OCC(47,71% < 60%), GOS(2,24% closed to 2%). From average traffic parameters for voice services only CDR and MHTS that have unstable value, CDR was over high value and MHTS has short time. Based on analysis need an evaluation to Telkom Flexi network, because have some parameter below the key performance indicator and influence user quality of service.