

ABSTRACT

CDMA (Code Division Multiple Access) is one of multiple access technique which is using spread spectrum, where every user has specific and unique code and orthogonal one another. For that reason, CDMA enable signal from each user to be transmitted in the same period and frequency. So far, CDMA has been developed from CDMAone or CDMA IS-95 into CDMA2000. CDMA2000 has some development pattern namely 1X, 1X-EV DO, 1X-EV DV dan 3X.

Commonly, CDMA is used for mobile communication system. However, it also can be implemented for radio access network service which one of them is fixed wireless that playing very important role in the development of telecommunication service.

PT. TELKOM as one of fixed telephone operators since last 2002 has implemented CDMA2000 1x in building the fixed wireless network in Indonesia which one of the networks are Bandung area.

Coverage area is one of important factors in determining subscriber satisfaction toward system performance. For that reason, proper steps are required in coverage area's optimization. Good system performance able to improve the success of call setup within busy hour.

This Final Duty explain about performance evaluation and implementation of fixed wireless access CDMA2000 1x in Bandung area which include site capacity, link budget and especially focused on coverage area analysis along with it's optimization.