

ABSTRACT

CDMA (Code Division Multiple Access) was developed by Qualcomm since the end of 1991 which limited used for military in the beginning. CDMA system provides data and voice service. CDMA 2000 1x is technology based on IS-95 with improvement in data service. System component such as PDSN (packets data serving node), AAA (Authentication, Authorization, and Accounting, Router), Firewall and Home Agent was added in built infrastructure.

In this final project, analyzed did for data service performance in CDMA 2000 1x network PT. Telkom Flexi Jakarta, with centered in PDSN based on throughput and packets loss. Data collection used PT. Telkom Flexi's software M2000 then it's evaluated and compared with theory so PT. Telkom Flexi can give better service especially for data service.

From data measuring result the average user data throughput for uplink is 0,177031042 Mbps. Uplink packets loss is about 0,001954 % and downlink packets loss is 0,000151219 %.