

ABSTRACT

TELKOM*Flexi* is Wireless communication technology based on CDMA 2000 1x technology that developed by Fixed Wireless Access Division TELKOM*Flexi*. Based on CDMA 2000 1x, The system can support voice services and data services with rate up to 152,6 kbps. Data services aplicated on Internet Connection Services or called Wireless Internet Service.

This Final Duty research about infrastructure and performance of Wireless Internet network based on packet switch technology. The Infrastructures that being explained are Packet Core Network configuration, call setup, Protocol Architectures and Packet data states. The parameter that being used to analyse performance is throughput parameter. Analysis throughput will focus at traffic incoming on busy hour that happened on network between BSC with PDSN. PDSN is gateway to access web server.

Based on the analysis result from performed parameter, its explain whether theb throughput is already good enough or the network needs improvement and development. Besides that, the analysis will give TELKOM*Flexi* ideas how to developed Wireless Internet network become reliable.