ABSTRACT

Data communication system has been a part of human daily life nowadays, one is the necessity of internet which grows faster. Internet is used by a whole community and all sectors of life. DSL (Digital Subcriber Line) is one of internet access technology with special element at CO (Central Office) and customer which is probably broadband transmission through copper wire.

As one of telecommunication service provider, PT. Telkom has also implemented one of DSL variants, that is ADSL (Asymmetric Digital Subcriber Line) for internet service which is known as Speedy. Speedy service that uses DSL technology, divided into two sides which are access side and internet side. Access side of Speedy service is network configuration side between CPE (Customer Premises Equipment) – DSLAM (Digital Subscriber Line Access Multiplexer) – BRAS (Backbone Remote Access Server), while the internet side is from BRAS until internet global. Nowadays, monitoring system is needed to watch Speedy service network by the access side which is from CPE until BRAS. Network monitoring and management is needed to increase internet service performance at Speedy access network which will influence customer satisfaction.

In this final project, being done analysis about implementation of network monitoring system at Speedy access network especially look from its network quality aspect until get better performance and can maintenance network SLG (Service Level Guarantee) for internet service users with uses ADSL access technology existing

Monitoring system implementation at Speedy access network is used to monitor network electric quality parameters. Based on monitoring results,it should be added another parameters which influence Speedy service performance.

Keywords : monitoring, DSLAM, access network, network quality