ABSTRACT

The growth of multimedia network customer in Indonesia is about 32% per year due to 34 thousand customer in year 2005. In global market showed that data service is going to increase with growth average above 50% per year and voice service growth 15% per year. Its open to built multimedia network based on Internet Protocol (IP).[2]

PT. TELKOM as a network service provider faced a big challenge to built an optimal naetwork such as offer a service top accomodate customer necessity, built a high quality network with low investment, and simplipied an exist technology combine with a new technology. SPEEDY is one of the new service, an internet broadband technology throught copper wire which use ADSL (Asymmetric Digital Subscriber Line) technology. There are lots problem within SPEEDY growth process, QoS (Quality of Service) and security system are among of the problem being faced.

QoS planning affected by loss ratio value. And for security system after implementing QoS, % of decreasing abuse amount will be analyzed.

Planning Qos result, for web browsing is needed to allocate bandwidth between 384.136 Kbps to 232.62 Kbps, for voice and video conversation bandwidth allocated between 399.287 Kbps to 475 Kbps, and for video & audio streaming need to allocated bandwidth over 505.348 Kbps, to accommodate loss ratio referece.

Key Word : *QoS (Quality of Service), security system, ADSL (Asymmetric Digital Subscriber Line)*