

Analisis unjuk kerja IPTV pada jaringan ADSL dengan simulasi menggunakan OPNET IT Guru V.8.0.C dan pengukuran menggunakan DSLAM Testbed PT. Telkom Risti Bandung = Performance analysis of IPTV over ADSL through simulation using OPNET IT Guru V.8.0.C and measurement using DSLAM Testbed PT. Telkom Risti Bandung

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Abstrak

The using of ADSL network in Indonesia is still limited to high speed internet access with 384 and 512 Kbps bit rate. With the capacity of ADSL 2+ network reaching 25 Mbps, the utilization of ADSL network only for internet access is still low. IPTV as a new technology in television, IP-based, is expected to increase the utilization of ADSL network and adding costumer's experience in watching television. However, until now there has been no research in analizing IPTV's performance over ADSL network. This thesis is made to analyze the performance of IPTV over ADSL network with simulation using OPNET IT GURU v.8.0.c and by measurement using DSLAM testbed PT. Telkom RisTI Bandung. Performance parameters measured are delay and throughput. System's performance in simulation analyzed by variating video's resolution and frame rate. While system's performance in the measurement analyzed by variating video's bit rate and DSLAM's bandwidth. From simulation's result known that resolution and frame rate influencing delay and throughput (the increasing of resolution and frame rate resulting in increasing of delay and throughput). From measurement's result known that delay and throughput influenced by video's bit rate (the increasing of video bit rate resulting in increasing of delay and throughput), while the influence of bandwidth setting in DSLAM is not yet be seen.