

ABSTRAK

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Judul: Analisis Kualitas Layanan Video *Streaming* Berbasis Protokol 802.11, Nstreme, dan NV2 Pada Jaringan Nirkabel

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Kata Kunci: 802.11, Nstreme, NV2, Video *Streaming*, QoS, Jaringan Nirkabel.

Pada dasarnya, kualitas layanan video *streaming* sangat dipengaruhi oleh masalah *Quality of Service* (QoS). Penelitian ini bertujuan untuk menganalisis kualitas layanan video *streaming* berbasis protokol 802.11, Nstreme, dan NV2 pada jaringan nirkabel. Pengukuran kualitas layanan video *streaming* berbasis protokol 802.11, Nstreme, dan NV2 dilihat berdasarkan parameter *Quality of Service* diantaranya *delay*, *packet loss*, *jitter* dan *throughput* dengan bantuan aplikasi wireshark. Penelitian dilakukan dengan melakukan proses video *streaming* menggunakan ukuran paket data dengan jarak antara titik kirim dan penerima yang sama dimasing-masing protokol 802.11, Nstreme, dan NV2. Hasil menunjukkan bahwa layanan video *streaming* pada jaringan nirkabel berbasis protokol Nstreme terbukti lebih baik daripada protokol 802.11 maupun protokol NV2 hal ini diketahui berdasarkan parameter *delay*, *packet loss* dan *throughput*. Namun, jika didasarkan pada parameter *jitter* kualitas layanan video *streaming* berbasis protokol NV2 lebih baik daripada protokol 802.11 maupun Nstreme.

ABSTRACT

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Title: Quality Analysis of Video Streaming Services Based on 802.11, NSTREME, and NV2 Protocols on Wireless Network

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Keywords: 802.11, Nstreme, NV2, Streaming Video, QoS, Wireless Network.

Basically, the quality of video streaming services is strongly influenced by the problem of Quality of Service (QoS). This study aims to analyze the quality of video streaming services based on 802.11, Nstreme and NV2 protocols on wireless networks. The measurement of video streaming service quality based on 802.11, Nstreme and NV2 protocols is seen based on Quality of Service parameters including delay, packet loss, jitter and throughput with the help of a wireshark application. The research was carried out by doing a video streaming process using the data packet size with the distance between the sending point and the same recipient in each of the 802.11, Nstreme and NV2 protocols. The results showed that video streaming services on wireless networks based on the Nstreme protocol proved to be better than 802.11 and NV2 protocols, this was known based on the parameters of delay, packet loss and throughput. However, if based on the jitter parameters, the quality of video streaming services based on NV2 protocol is better than 802.11 or Nstreme protocols.