

ABSTRACT

Technology development in today's leading technology based on Internet protocol. In line with the widespread use of IP-based Internet, the services available is growing, so too can be applied to IP networks. IP network itself is a network-based data packet switch which information is converted into packets before it is sent to the recipient. The development of Internet Protocol technology (IP) is currently carrying a major influence on patterns of human life. Almost everyone wants to always access the Internet, wherever and whenever they are even in a state that is moving. This is what lies behind the emergence of Mobile IP technology, which is able to serve the user with his mobile device.

In this final task of streaming video applications on a WLAN network (Wireless Local Area Network) by the method of FMIPv6 with the observed parameters include delay, jitter, packet loss, throughput, MOS and PSNR.

MIPv6 handover delay ranges from 2.27 seconds - 3.04 seconds while the delay ranged FMIPv6 handover of 0.027 seconds - 0.0495 seconds. From hasi QoS Packet loss found that FMIPv6 and MIPv6 can not qualify ITU-T G.1010 by 1% for video applications, but at the time of MN in the HA, PAR and NAR's standards. PSNR and MOS values in the HA, PAR and NAR is good enough the value of PSNR > 30 db and MOS > 3.5. Overall performance of FMIPv6 better than Mobile IPv6.

Keyword : *MIPv6, FMIPv6, handover, QoS, Video streaming*