ABSTRACT

Development of wireless technology and it's interface followed internet services, cause of network support user mobility in internet access. Mobile IP is internet protocol that support user mobility to move from one domain to another domain for wide coverage (macro-mobility) differ communication through usual IP protocol, where each user identical only one port fixed communication.

Mobility management Mobile IP requeires Mobile Host for sending registration information every time handoff from one domain to another. It's cause signalling overhead give significant influenced for network performance.

MPLS was developed to decrease complexity forwarding process IP network to network optimize, with determines of FEC in going packet on MPLS's domain, when packet on network, the packet will be given label, so router in MPLS network no need to do header network analizing packet. And only continued packet appropriate it's label.

In this final project, will be analized Mobile IP performance in wireless network with MPLS scheme for forwarding packet processing, for decreasing overhead and simplify packet routing. Parameter that will be analized are throughput, jitter dan packet loos, and comparing with usual Mobile IP network.

Keyword : Mobile IP, Macro-mobility, MPLS