

## PERFORMANCE EVALUATION OF MOBILE INTERNET PROTOCOL VERSION 6

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### ABSTRACT

Nowadays a lot of computing devices are available in the market. These devices are supporting wireless and mobile technology. Mobile IPV6 is an enhanced version that was designed to be a natural outgrowth of Mobile IPV4. As reliance on Internet and web-based services increases, so do customer expectations for availability, reliability, and responsiveness of the services, especially in the Mobile IPv6 network environment. In this paper, the advantages of IPv6 for mobility are given and the Mobile IPv6 protocol is overviewed. Then the paper introduces some issues about Route optimization security and Quality of service (QoS) requirement of packet streams between Mobile Node (MN) and Correspondent Node (CN) or between MN and Home Agent (HA).

**KEYWORDS:** Mobile IPv6, Triangle Routing, Route Optimization, Quality of Service, Security