Abstract

Numerous researches about Mobile IPv6 (MIPv6) have been proposed recently and the handover delay of the Mobile Nodes (MNs) among different networks is surely a worthy noticing issue. In order to configure the IP address and optimize the routes Mobile IPv6 has been proposed by the Internet Engineering Task Force (IETF). There are three major reasons for the MIPv6 handover delay: Movement Detection, Duplicate Address Detection (DAD), and Binding Update (BU), in which DAD occupies most of the MIPv6 handover delay and influences real-time services greatly. DAD also results in packet loss, reducing the throughput, during the handover.

To avert the problems that worsen the handover latency and the packet loss, this paper presents Address Reconfiguration Mechanism to generate a unique CoA rapidly when duplicate address occurs. This avoids the need of DAD. The proposed scheme indeed reduces the handover delay and the packet loss when the CoA is duplicated.
Mechanism to Reduce Handover Delay in HMIPv6

References


Index Terms

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Keywords

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