

Transparent IP Mobility Management

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Abstract

Mobile IP is a protocol that supports the IP mobility of mobile nodes. However, the protocol has the triangular routing problem. Although many routing optimization extension schemes in IPv6 networks can solve the problem, the delivery of routing optimization messages in the handoff period may incur long transmission delay and message loss, and therefore degrade the performance of routing optimization mechanisms. In addition, all schemes require all mobile nodes and their correspondent nodes to be involved in mobility management. A mobile node must inform its correspondent node of its roaming and its new location/address. In this paper, we exploit the Domain Name System (DNS) to develop a Mobility Management System. Except granting the access to a new wireless link after roaming, the mobility management is transparent for a mobile node and its correspondent node. No routing optimization message is delivered.

Keyword : Mobile IP