



# Mobile IPv6: Mobility in a Wireless Internet

*Hesham Soliman*

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## **Mobile IPv6: Mobility in a Wireless Internet** Hesham Soliman

With total global projected mobile phone subscribers expected to reach 1.37 billion in 2004 (according to Strategis Group), mobile IP is poised to represent a key technology for enabling various non-voice and multimedia services. This book focuses on the current Mobile IPv6 standard, which was finalized in 2003 by the Internet Engineering Task Force (IETF). MIPv6 allows a mobile node to transparently maintain connections while moving from one subnet to another. Part I provides the necessary background on IPv6 and the Internet. Part II provides a detailed analysis of the Mobile IPv6 protocol, starting with an overview of the protocol's operation and then moves on to describe the issues involved in securing Mobile IPv6. Part III examines performance and optimization topics related to Mobile IPv6. Part IV is focused on deployment issues for IPv6 and Mobile IPv6. The author presents some of the most important mechanisms designed to allow IPv6 to be deployed in an IPv4 Internet. The topic of IPv6 mobility will only gain momentum as the wireless industry continues to grow, supporting more than 1 billion devices with unique IP addresses.

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This document specifies Mobile IPv6, a protocol that allows nodes to remain reachable while moving around in the IPv6 Internet. Each mobile node is always identified by its home address, regardless of its current point of attachment to the Internet. Mobility support in IPv6 is particularly important, as mobile computers are likely to account for a majority or at least a substantial fraction of the population of the Internet during the lifetime of IPv6. The protocol defined in this document, known as Mobile IPv6, allows a mobile node to move from one link to another without changing the mobile node's "home address".

subsequent to a change of wireless access point typically results in an L3 handover. correspondent node. Our Mobile Internet devices go with our Mobile Internet plans so you're always connected, wherever you go. Smart Hub. Get online. With multiple Wi-Fi enabled devices, up to 20 at one time, plus one wired connection via Ethernet. A backup battery. The 3000 mAh backup battery can keep you browsing even in the event of a power outage. Portable and easy setup. Captive 2.4GHz touch colour display, essential device information is delivered in a simple way. MiFi Share provides users the ability to share files with connected devices on the local, secure, Wi-Fi network from a USB-C memory stick. Novatel Wireless MiFi 7000. \$100 1. Buy now. Get Mobile Internet for business. Plans. Choose a Mobile Internet plan that fits your needs.