Abstract

IPv6 is introduced mainly to resolve the address space issues and also provides several advanced features. IPv6 is estimated to replace IPv4 in a very near future. Dual Stack Mobile IPv6 (DSMIPv6) is an extension of Mobile IPv6 to support mobility of devices irrespective of IPv4 and IPv6 network. This paper provides an architectural overview of the existing DSMIPv6
implementation and software architecture to understand the significant modifications which have been made on DSMIPv6 basic implementation to achieve the requirements. The scope of the paper is to implement the Dual-stack Mobile IPv6 (DSMIPv6) protocol as per the IETF (Internet Engineering Task force) draft. The entities which have been implemented are 'DSMIPv6 Home Agent' and 'DSMIPv6 Mobile Node'. The paper covers overview of NEPL (Network Mobility platform for Linux) and DSMIPv6 implementation and briefly describes the features supported by DSMIPv6 architecture. It also focuses on our Solution Approach and explains the high level view of modules used in DSMIPv6 using a block diagram schematic.

Reference

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Index Terms

Computer Science
Networks
Key words

Dual Stack  IPv4  IPv6  MIPv6