SECURITY ISSUES WITH MOBILE IP

ECE Scholarly Paper Presentation

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ABSTRACT

Mobile IP is an Internet standard protocol that allows computers or other mobile devices maintain Internet connectivity while moving from one domain to another domain [1]. Nowadays, more and more data are transmitted over wireless communication. However, mobile device users often face various security threats such as session hijacking, denial of service, eavesdropping, and address impersonation. In order to protect users from those threats, some security features including confidentiality, authentication, integrity checking and non-repudiation need to be employed in the Mobile IP system. In this paper, security protocols and proposals related to Mobile IP including Mobile IPv4 and Mobile IPv6 and relevant algorithms are reviewed. Shortcomings of these security mechanisms are also addressed in this paper.