Abstract

IP Mobility which was established to facilitate mobility within a worldwide system of interconnected computer networks gives a scalable solution for different networks. As the commercial use of the internet becomes common for IP Mobility through the wireless communication, it is necessary to construct a secure IP Mobility in a registration process which informs the location of the portable systems such as mobile devices to the home network. While registering the locality with the packet transmission by the portable system, the security issues are of paramount importance and this registration must be secured against any cruel attacks that might attempt to acquire unauthorized advantages from any participating principals. The need for secure way to do Mobile IP registration has given rise to a number of protocols. This paper discusses the various existing Mobile IP Registration protocols. The simulation and comparisons has been conducted on the different protocols with the security parameters and registration time to evaluate each protocol's efficiency.

References

Mobile IP Registration Protocols: A Survey

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Index Terms

Keywords

Authentication  Confidentiality  Non-repudiation  Registration delay  Replay attack  and User anonymity