Deployment of SIP in MANET: challenges and circumvention

Salma Radwan, ATEF Z. GHALWASH, HOSSAM-E M. SHAMARDAN

Assistant Lecturers

Abstract

The immense growth in wireless network applications has encouraged the researchers to enhance and propose new approaches that facilitate the deployment of the widely used services, protocols, and applications of the wired networking area in the wireless networks. Among which, the Session Initiation Protocol (SIP) is a signaling protocol that allows the establishment of multimedia sessions and calls between different parties. SIP functionality totally depends on a centralized infrastructure, and complexity arises when deploying such a protocol in a special type of wireless networks, namely Mobile Ad-hoc Networks (MANET), due to the absence of a centralized infrastructure, and the dynamic topology of the later. This paper highlights the challenges arising when deploying SIP in MANETs and presents an overview of different proposed approaches to overcome these challenges.

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