Abstract

Mobile Ad-hoc networks (MANETs) are formed by the association of the mobile devices, usually capable of multi-hop communication among themselves even if there is no networking infrastructure and central administration to control its operation. Need for the ubiquitous computing lead to connect the MANETs to the fixed IP Network i.e. internet. To connect the MANET to the internet first it might discover internet gateway through which it can communicate. The discovered gateway may be the mobile node within the MANET or it may be any fixed external node outside the MANET. The gateway works as the default router for all the nodes of the MANET through which all the incoming/outgoing packets are routed between the MANET and the internet. Discovery of the efficient internet gateway is very challenging task. Although so many solutions are proposed and implemented by the different authors/researchers but still no unique and robust solution is discovered so far, therefore a deep investigation and evaluation of the existing proposal is required to investigate the robust & flexible solution. This paper discusses the fundamentals of MANET-INTERNET integration and address systematic evaluation of the current proposals with issues & challenges remains unresolved. The aim of this paper is to build the strong foundation to discover an efficient, robust and flexible internet access solution that has not been discovered so far. This review paper concludes with further points of investigation.
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