In recent years, Wireless Mesh Network (WMN) has been emerged out as the next generation of wireless communication networks due to its economical feature in the era of broadband services it supports. However, security issues inherent in WMNs or any wireless networks needed to be considered before the deployment of such networks, since it is disagreeable to subscribers to acquire services without the assurance of security and privacy. Wireless security has become the hot area in the literature for diverse network technologies such as ad hoc networks, cellular networks, local area networks and sensor networks etc. On the other hand, the network authority necessitates the provisional anonymity such that all the misbehaving entities in the network remain traceable. This paper introduces a ticket based security
framework to make sure the unconditional anonymity for honest users and traceability of misbehaving users. The proposed architecture strives to resolve the divergence between the anonymity and traceability, in addition to ensuring these objectives it also pledges the fundamental security requirements by providing the location privacy and without relying on the central authority.

References

Index Terms

Computer Science

Wireless

Keywords

Wireless Mesh Network (wmn)  Security Requirements  Authentication  Anonymity  Trusted Authority Etc.