Abstract

Establishing an Authentic Association among entities in Wireless Mesh Networks (WMN) is a nontrivial problem and the architecture of WMN is relatively new and lacks a robust secure scheme. In this paper, we develop a Polynomial Based scheme which provides pair-wise connectivity, low communication, marginal storage overhead and high scalability while making on the fly Authentic Association feasible by using random perturbation based (RPB) scheme. New Proposed scheme is not only observed to be resilient against both traffic analysis and node capture attacks but also it is more secure, only requires a small storage space and has a little communication overhead.

References

- Gaur, A., et al., Polynomial based scheme (PBS) for establishing Authentic


Index Terms

Computer Science Wireless

Keywords

Authentication scalability Mesh Routers Bi-variate polynomial Mobile client Hash function.