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RESEARCH ARTICLE

QOS AND SECURITY BASED MECHANISM IN MANET

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Abstract—**Mobile ad hoc networks (MANETs) have attracted much attention due to their mobility and ease of deployment. The wireless and dynamic natures render them more vulnerable to various types of security attacks than the wired networks. The major challenge is to guarantee secure network services. In Existing the voting based and non-voting based mechanisms to guarantee the service. The certificate revocation is an important integral component to secure network communications. The issue of certificate revocation to isolate attackers in network activities. For quick and accurate certificate revocation, the Cluster-based Certificate Revocation with Vindication Capability (CCRVC) scheme. To improve the reliability of the scheme, the warned nodes to take part in the certificate revocation process are revoked to enhance the accuracy. The threshold-based mechanism to assess and vindicate warned nodes as legitimate nodes or not, before recovering them. It is effective and efficient to guarantee secure communications in mobile ad hoc networks. The Efficient network should have the high quality of Service and also the high security. With the help of CCRVC method, the high security will be increased. With the help of Quality of service path first (QOSPF) routing protocol, the QOS will be increased. QOS contains throughput, delay, lifetime, Overhead, Packet delivery ratio and Packet Loss Ratio.**

Keywords: Mobile ad hoc networks (MANETs); certificate revocation; security; threshold

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