Abstract

Proactive security mechanism like authentication, confidentiality and non-repudiation are difficult to implement in MANETs. Some additional security necessities are always desirable like co-operation fairness, location confidentiality, data freshness and absence of traffic diversion. Traditional security mechanism (authentication, encryption) provide abstract level of security but
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some reactive security mechanism and deep level of inspection is always required. Here local-distributed intrusion detection system for ad hoc networks has proposed. In the proposed distributed-ID, a smart agent in each mobile node analyzes the routing packets and also checks the overall network behavior of MANETs. It works like a Client-Server model using Markov process. The proposed local distributed- IDS shows a balance between false positive and false negative rate.

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**Index Terms**

Computer Science  
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**Keywords**

MANET  
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security mechanism  
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false negative and false positive