Abstract

Mobile agent is a software program comprising of decision making code and data that have the potential to migrate from one node to another node in a network. A mobile agent works on behalf of the owner who created it. Mobile agent operates in a distributed environment in which agents with specific functionalities roam in the network to execute a task in the target hosts. Mobile agent systems are more efficient compared to client server architecture, because they
help in reducing network traffic to a larger extent. Mobile agents being vulnerable to various threats and attacks on the network are a major concern in this system. In a non trusted environment, care should be taken to protect the mobile agent from getting tampered. Existing work on mobile agent systems with different mechanisms doesn’t provide complete security. In this paper a trust model is proposed with code obfuscation and frequent monitoring of mobile agents using locator mechanism along with data encryption which helps in protecting the data and code which agent carries, thus providing an additional layer of security.

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**Index Terms**

Computer Science  
Security

**Keywords**

Mobile Agent  
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Cryptography  
Locator Mechanism  
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