Abstract

Node capture attack is one of the most dreadful security attack exist in wireless sensor networks. An adversary steals cryptographic key information from a captured node to compromise entire network. So, Security of wireless sensor network is an important issue for maintaining confidentiality and integrity of wireless links. Now-a-days, researchers are paying attention towards developing security schemes against Node capture attack. Our survey provides deep insights of existing modeling techniques of node capture attack in wireless sensor network. It also analyzes various detection and key predistribution schemes for inventing a new scheme to improve resilience against node capture attack.
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**Index Terms**

- Computer Science
- Wireless

**Keywords**

- Wireless Sensor Network
- Node Capture Attack
- security
- Key predistribution
- VANET.