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.

References

An Exhaustive Survey on Physical Node Capture Attack in WSN

- Chi Lin, GW, Enhancing the attacking efficiency of the node capture attack in wsn: a matrix approach, J Supercomput, 2013.
- Ruhma Tahir, Klaus McDonald-Maier, Improving resilience against Node capture Attack in Wireless Sensro Networks using ICmetrics, In IEEE3rd international conference on Emerging Seciruty Technologies, 2012
Yong Wang, Garhan Attebury, and Byrav Ramamurthy. A survey of security issues in wireless sensor networks. IEEE Communications Surveys & Tutorials, , Second Quarter 2006, 8(2) :02–23


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