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RESEARCH ARTICLE

Vampire Attacks: Topology Discovery in Wireless Ad Hoc Sensor Networks

P. Dhivya¹, P. Sathya Priya², M. Thenila³

¹Computer Science & Engineering Department & Anna University, India

²Computer Science & Engineering Department & Anna University, India

³Computer Science & Engineering Department & Anna University, India

¹divi15.p@gmail.com; ²sathyapr03@gmail.com; ³thenilakumar@gmail.com

Abstract— This Project work explores resource depletion attacks at the routing protocol layer, which permanently disable networks by quickly draining nodes battery power. The “Vampire” attacks are not specific to any specific protocol, but rather rely on the properties of many popular classes of routing protocols. To mitigate these types of attacks, include a new proof-of-concept protocol and AODV protocol that provably bounds the damage caused by Vampires during the packet forwarding phase.

Keywords—Ad-Hoc network; Stretch attack; Carousel attack; Vampire attack; Sensor network

Full Text: <http://www.ijcsmc.com/docs/papers/February2014/V3I2201499a27.pdf>