RESEARCH ARTICLE

Order Matters: Transmission Reordering In Mobile Adhoc Networks

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ABSTRACT

A physical layer capability Message in Message was supported by modern wireless interface, MIM has capability to engage to strong signal reception from week signal reception. The proposed routing scheme jointly addresses the issues of learning and routing in an opportunistic context and the opportunity in MIM-aware reordering, characterizes the optimal improvement in throughput, and designs a link-layer protocol for enterprise wireless LANs to achieve it. Congestion in point-to-point transmissions in a wireless mesh network or underwater acoustic network can have debilitating effects on data transport through the network. The effects of jamming at the physical layer resonate through the protocol stack, providing an effective Denial-Of-Service (DoS) attack on end-to-end data communication. The simplest methods to defend a network against jamming attacks comprise physical layer solutions such as spread-spectrum or beam forming, forcing the jammers to expend a greater resource to reach the same goal. However, recent work has demonstrated that intelligent jammers can incorporate cross layer protocol information into jamming attacks, reducing resource expenditure by several orders of magnitude by targeting certain link layer and MAC implementations as well as link layer error detection and correction protocols.

Index Terms— Wireless LAN; wireless networks

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