

Potential Cognitive Radio Denial-of-Service Vulnerabilities and Countermeasures

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Abstract: Unlike traditional radios, cognitive radios sense spectrum activity and apply spectrum policies in order to make decisions on when and in what bands they may communicate. This paper examines how such activities make CR's vulnerable to denial-of-service attacks. The goal is to assist cognitive radio designers to incorporate effective security countermeasures now, in the early stages of cognitive radio development.