

2. DISTRIBUTED MULTI GATEWAY ARCHITECTURE AND SECURITY IN WIRELESS MESH NETWORK

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The overall performance of the wireless mesh network depends upon the number of hops between mesh routers and internet gateways. Recently a new mechanism of femtocell as additional internet gateway is introduced. Because of uninformed disconnection and unpredictable operating time femtocells, mesh routers required efficient and robust schedule for switching between the femtocells. The switching can done in two different ways as push based preemptive or pull based non-preemptive switching models. In this paper, analysis both these switching model in WMN-FC integrated network and additionally add the concept of wormhole attack detection in wireless mesh network. For this mechanism proposes round trip time (RTT) and number of neighbor node detection scheme. These techniques ensure connectivity and security of femtocell.

Keywords- Femtocell, preemptive or pull based non-preemptive switching models, round trip time

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