Abstract

The Wireless Mesh Network (WMN) has become the focus of much research since they allow increased network coverage, low cost and easy deployment. WMN includes the Internet Gateways (IGW), mesh routers and mesh clients forming a three layer architecture. Throughput and fairness are major issues in WMN as the network needs to satisfy increasing network demands and must be fair to all the clients requesting the demand. The gateway may become a bottleneck as all the traffic in WMN is routed to and from the gateway. All these above factors affect the performance of network. Thus the scheduling and load-balancing have become main challenges in WMN. Several scheduling and load balancing schemes have been discussed in this paper. Two scheduling models explored are interference-based and tree-based. Four load balancing schemes discussed are path-based, gateway-based and mesh-router-based.

References


Analysis on Scheduling and Load Balancing Techniques in Wireless Mesh Networks

Index Terms

Computer Science

Wireless

Keywords

Wmn  Scheduling  Load Balancing