

## Documents

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**Gateway placement approaches in Wireless Mesh Network: Study survey**

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**Abstract**

In this paper, gateway placement approaches in Wireless Mesh Network are studied and evaluated. Their purposes are classified. According to the relevant researches in this area, there are many gateway placement approaches in Wireless Mesh Network that have been found. These approaches are designed to find an optimal network throughput, cost minimization, quality of services and load balancing. In this paper these approaches are classified depending on their purposes. This classification helps in determining the optimal approaches by comparing and analyzing the mechanism of each approach and then select the suitable approach that can be used depending on the aim of the wireless mesh network. The study result shows that there are significant research efforts in gateway placement problem in wireless mesh network specifically in terms of throughput and quality of services, but extra research efforts are needed in gateway placement considering load balancing. © 2013 IEEE.

**Author Keywords**

Gateway placement approaches; Wireless Mesh Networks; Wireless Network

**Index Keywords**

Cost minimization, Gateway placements, Optimal approaches, Optimal networks, Research efforts; Electronics engineering, Optimization, Parallel architectures, Research, Wireless mesh networks (WMN), Wireless networks; Gateways (computer networks)

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