Abstract

In ad hoc networks, traditional MAC protocols used omnidirectional antennas. But these days directional antennas have emerged as an alternative of omnidirectional antenna. The directional antennas offer many benefits compared to classical omnidirectional antennas. Those include significant increases in spatial reuse, coverage range and subsequently network capacity as a whole. In this paper, we present comparison study of directional and omnidirectional MAC protocols. We are contrasting their features and evaluating their performance under various network load. For comparison the performance we simulated some omnidirectional and directional MAC protocols by using OPNET 14. 5. we have simulated an ad hoc network scenarios by using the omnidirectional and directional MAC protocols
Performance Comparison for Omnidirectional and Directional MAC Protocols for Ad hoc Network

References


Index Terms

Computer Science
Mobile Networks
Keywords
WLAN  Ad hoc Networks  IEEE 802.11  directional MAC  hidden terminal problem
exposed node problem