Abstract

Wireless Broadband Access service is now a day’s more popular for data transmission. Traditional high-speed broadband solutions rely upon wired technologies specifically digital subscriber line (DSL). Wi-Fi is helpful in providing any type of connectivity such as the fixed or portable connectivity while not the need of LoS (Line of Sight) of the base station. Mobile Broadband Wireless Network (MBWN) could be a versatile and economical answer for remote areas where wired technology and additionally terminal quality can't be provided. The IEEE 802.11 family based Wi-Fi is the most promising technologies for broadband wireless metropolitan area networks (WMANs) and these are capable of providing high output even on long distances with varied QoS. In this paper the basic physical layer architecture is discussed and on the basis of the study a new Wi-Fi model is developed for supporting the wireless broadband access.


Index Terms

Computer Science Wireless

Keywords

Digital Subscriber Line (DSL), Line of Site (LoS), Broadband wireless access (BWA), Point-to-Multipoint (P2MP), PLCP, PPDU etc...