Due to rapid growth in IEEE 802.11 based Wireless Local Area Networks (WLAN), handoff has
Handoff Latency Minimization by using Access Point by GPS using Selective scanning

become a burning issue. A mobile node (MN) requires handoff when it travels out of the coverage area of its current access point (AP) and tries to associate with another AP. But handoff delays provide a serious barrier for such services to be made available to mobile platforms. Different works have been done to reduce the handoff delay. In this paper, we have also proposed a method to reduce handoff latency for IEEE 802.11 wireless networks with map based on GPS. IEEE 802.11 uses 11 possible channels of 14 of which only the channels 1, 6 and 11 do not mutually overlap. Using these channels and 8 others by selective scanning here we have reduced the handoff off delay and later the authentication as well as re-association delay.

References

- Jaeyoung Choi Student Member, IEEE, Taekyoung Kwon & Yanghee Choi, Senior Member IEEE, Sangheon Pack Member, , IEEE,Fast Handoff Support in IEEE 802.11 Wireless Networks.
- Location-based Fast Handoff for 802.11 Networks. IEEE COMMUNICATIONS LETTERS, VOL9, NO 4 April 2005.
- Jin Teng, Changqing Xu, Weijia Jia, Dong Xuan, D-scan: Enabling Fast and Smooth Handoffs in AP-dense802.11 Wireless Networks.
Handoff Latency Minimization by using Access Point by GPS using Selective scanning

- D. P. Agarwal and Q. A. Zeng, "Introduction to Mobile and Wireless Systems," chapter 3

Index Terms

Computer Science

Wireless Communications

Keywords

Next Generation Wireless Systems (ngws) Handoff Bs (base Station) Mn (mobile Node) Rss (received Signal Strength)

IEEE802. 11
Ci Ratio