

Project Title: Reducing Handoff Latency In IEEE 802.11-Based WLANs
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Abstract:

WLANs have seen a very fast deploying in both public and private areas during the recent years. They provide a not trivial replacement for the complicated and high cost wired LANs. However, the Access Points that build these WLANs do not have a very long coverage range (usually under 100m indoors). Consequently, many handoffs may occur as the mobile host is moving while accessing the network resources located at the distribution system side. Unfortunately, these handoffs can disturb the real time applications if they consumed a long time (more than 50 ms). Several fast handoff schemes have been proposed in order to support fast handoff in IEEE 802.11 networks. These scheme however can be further improved by manipulating in advanced the two required phases of handoff i.e. Discovery Phase and Reassociation Phase. Four different works have been done to improve these handoff processing time. Our test results show that by using the proposed methods, we are able to improve the handoff processing time.