Conclusion


7.1 Conclusion

The modern wireless networks demand the need for providing seamless mobility of users from one type of network to another. In this research we have presented a detailed study of handoff algorithms used for homogeneous wireless networks. The study provides independent analysis and simulation of GSM, CDMA and UMTS network with special reference to new topology of wireless networks called adhoc networks.

The technology advancement and demand from users for seamless mobility made it mandatory for designers to integrate multiple standards to provide the enhanced services to the user. This study undertook the design of vertical handoff required for seamless mobility. As a first attempt, a cost function based handoff algorithm procedure is developed. Based on this procedure two algorithm are designed. The result of this design is reduction in number of handoff request.

To improve the cost function based handoff procedure we have developed a context based vertical handoff. The simulation results indicate that the dropping probability is reduced and the variance of the delay is improved.

7.2 Future Work

This research does not consider handoff on multiple types of networks, only a WLAN and WMAN has been considered. Hence it is suggested that one can test the vertical handoff for more than two networks operating in an overlay condition.

The performance is evaluated for the dropping probability and delay. It is recommended that one can test the performance in terms of complexity, computational overheads for the cellular processes.
7.3 Research Publications

Journals:


International Conferences:


- Sunita R. Sharma, Chandrashekhar Padole, Shrikant Bodhe: “Vertical Handoff Strategies: 3G Network”. In International Conference on Emerging Technologies in Telecommunication Convergence (ICETTC07), IETE Mumbai Centre, Mumbai (India), January 10-12, 2007


National Conferences:

