Fast Handovers and Context Transfers in Mobile Networks

Jaswanth Singh Bahadur
Guide: Prof. Schmidt
Introduction

- Idea of unified telecommunications network
- Quality of service
- Network infrastructure
- IP connectivity
Figure 1: Mobility Reference Diagram
Enabling Fast Handovers

Connectivity latency improvement

Improving the reception latency
Figure 3: Fast Handover Signaling
Connectivity Latency Improvement

- Handover indication to the mobile node
- Handover indication to the New Access Router
- New IP Address negotiation
Improving the Reception Latency

- Fast neighborhood advertisement
- Link layer triggering
Context Transfers

- Context re-establishment
- Content relocation
Conclusion

The Fast-handover Protocol specification goes a long way toward improving the speed of transfer while context transfer on fast handover signals can greatly improve the “handover experience” by maintaining key feature like QoS, Header compression, etc.
References

- Rajeev Koodli and Charles E. Perkins
  Nokia Research Center