

Mobility and Multihoming

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Pure Layer 3: Mobile IP

- Comparison IPv4 and IPv6 and IKE Mobility Extensions (“easy”)
 - RFC 3220 IP Mobility Support for IPv4
 - <http://www.ietf.org/internet-drafts/draft-ietf-mobileip-ipv6-24.txt>
 - Not much material yet available about the last one
- Introduction to these and comparison to each other (“easy”)

Pure Layer 4 Topics

- SCTP, Stream Control Transmission Protocol (SCTP)
 - <http://www.ietf.org/rfc/rfc3286.txt?number=3286>
 - <http://www.sctp.de/sctp.html>
- TCP-MH, TCP Multi-Home Options
 - <http://ietfreport.isoc.org/idref/draft-arifumi-tcp-mh/>
- DCCP Datagram Congestion Control Protocol (dccp)
 - <http://www.ietf.org/html.charters/dccp-charter.html>
 - <http://www.icir.org/kohler/dcp/>
- Introduction to these and comparison to each other (“easy”)

Future Layer “3,5” approaches

- HIP host identity payload
 - <http://homebase.htt-consult.com/~hip/>
- MAST = multiple address service for transport (mast)
 - <http://www.ietf.org/internet-drafts/draft-crocker-mast-proposal-01.txt>
- LIN6 Location Independent Networking for IPv6
 - <http://www.lin6.net/>
- Introduction to these and comparison to each other (“intermediate”)

Which Layer?

- What are the benefits and drawbacks of using layer 2, layer 3, layer 4, and layer 3.5 protocols for mobility? (“hard”)
- Two students with different tutors -> different opinions?