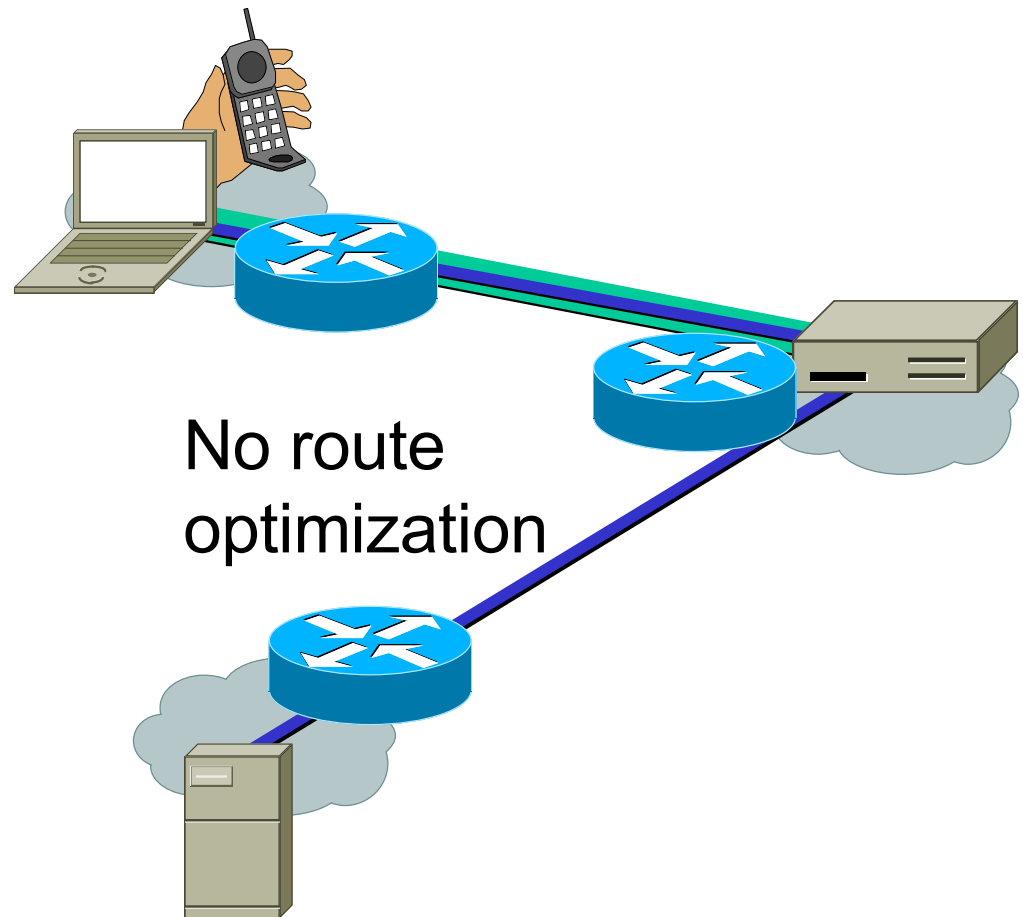


Mobility Complexity

IP4 and IP6

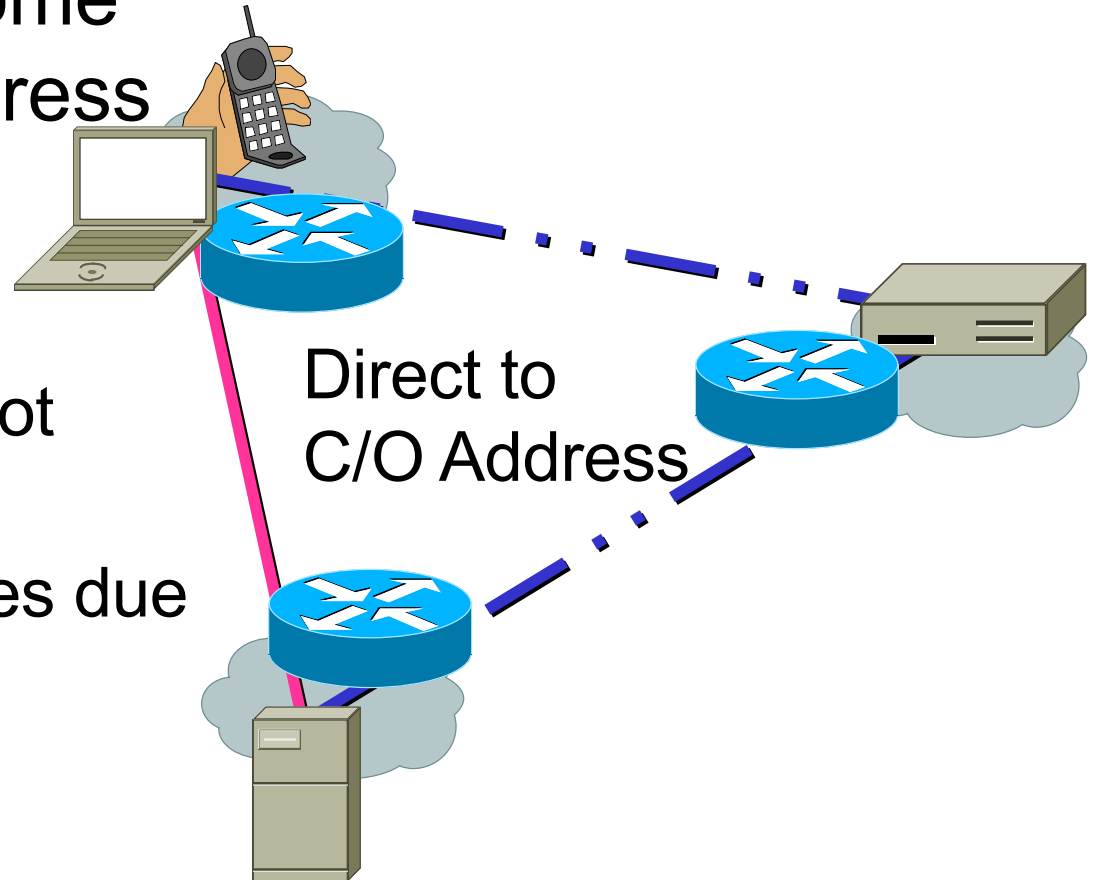
IP4 Mobility

- Static device talks to home agent
- Bidirectional tunnel to mobile device
 - Else ingress filtering problem
- Issues
 - Scaling
 - Single point of failure
 - Path MTU
 - Security association not specified



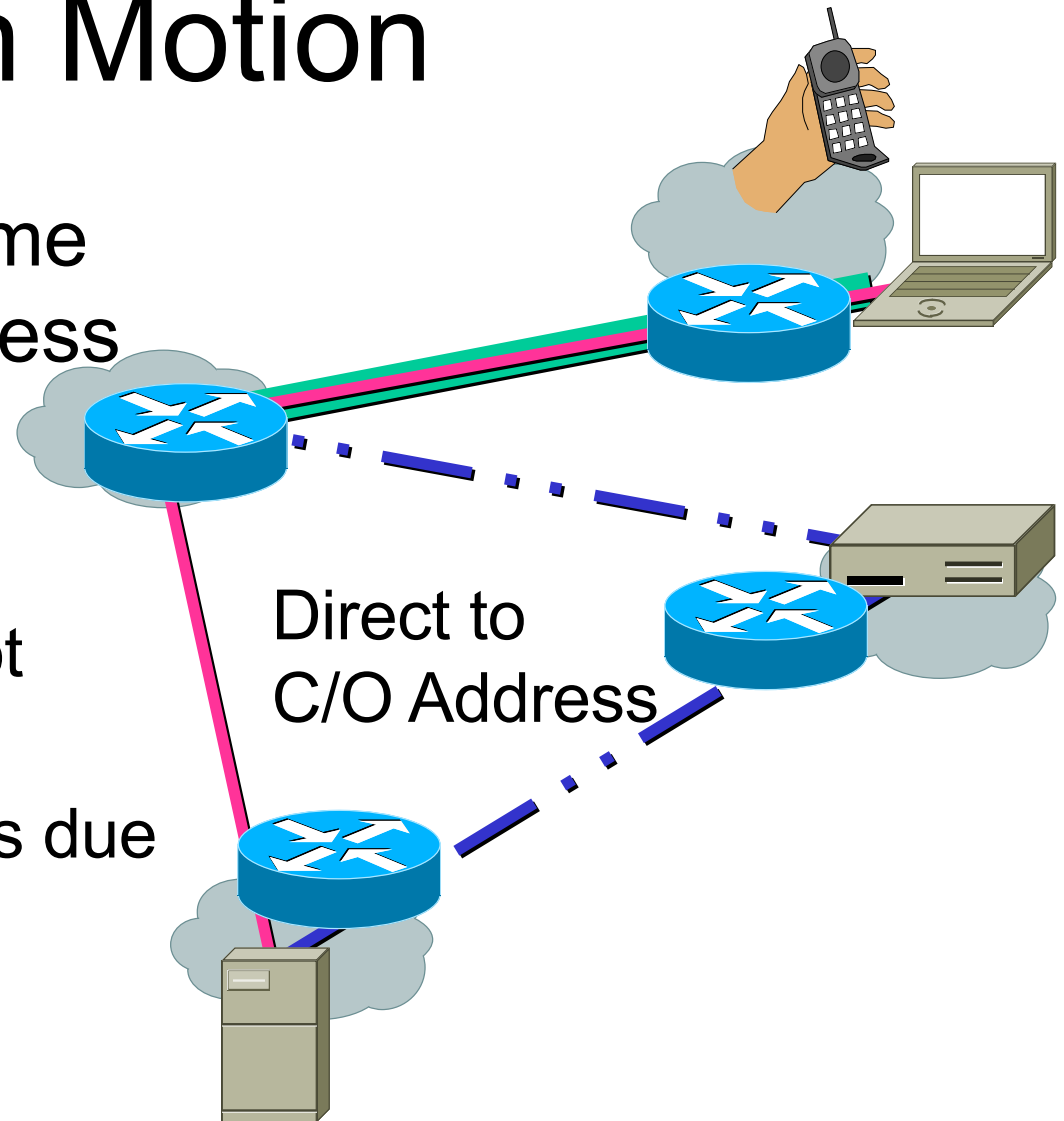
IP6 Mobility Structure

- Static device talks to home address via care of address
- Issues
 - Scaling improved
 - AAA association setup not complete in RFCs
 - ngtrans - additional issues due to IP4/IP6 transition?



IP6 in Motion

- Static device talks to home address via care of address
- Issues
 - Scaling improved
 - AAA association setup not complete in RFCs
 - ngtrans - additional issues due to IP4/IP6 transition?
 - Path MTU when router forwards to new care of address



Other issues with IP6 Mobility

- **AAA issues gate widespread deployment**
 - But not fully specified in RFCs
 - IP6 AAA specifications moving target wrt mobility
 - Wireless operators conservative
 - Want to not be first to deploy
- **Operational experience questions in 3GPP etc**
 - Deployed in CDPD, applications, but not as RFC 2002
- **Service Providers have to support options**
 - Not generally supported in IP4
- **We have to make stationary IP6 servers support Home Address negotiation**
 - May not be obvious to their vendors