

- 1) With regard to wireless mobility, please describe each of the following terms.
  - a. Home Network: The registered “home network” in which the home agent resides.
  - b. Home Agent: The entity in the home network which performs mobility functions for the device
  - c. Permanent Address: Address in home network, which will always correspond to the device.
  - d. Visited Network: Network which mobile device is currently in (assuming it is not in the home network).
  - e. Foreign Agent: Entity in the visited network which performs mobility functions for the device.
  - f. Care-of Address: Address in the visited network which is registered to the mobile device.
  - g. Correspondent: Entity attempting to communicate with the mobile device.
- 2) Why is “letting the routers handle it” not feasible for mobility?  
This would require routers to keep track of all mobile devices attached to the internet, resulting in massive lookup tables and very slow processing.
- 3) In Indirect routing, the correspondent sends all packets to the home network, which then redirects them to the mobile device’s visited network.
- 4) In Direct routing, the correspondent contacts the home agent to get the mobile device’s care-of address, and sends packets to the visited network.
- 5) What are some of the performance issues involved with mobility?  
Data loss due to transmission medium and hand-offs – interpreted as congestion.  
Additional overhead  
Overall lower throughput  
More answers possible...