

---

## CHAPTER 10

# Mobile IP

### Exercises

1. If a mobile host acts as a foreign agent, registration is still required. The mobile host/foreign agent still needs to identify itself to the home agent.
3. See Figure 10.E3.

**Figure 10.E3** *Solution to Exercise 3*

ICMP Advertisement Message			
16	8	1456	
10800		0	Reserved

5. An ICMP router solicitation message can also be used for agent solicitation by a mobile host. No extra fields are needed.
7. See Figure 10.E7. The protocol field is set to 1 to indicate ICMP.

**Figure 10.E7** *Solution to Exercise 7*

4	5	0	44	
42			0	0
15		1	Header checksum	
Source IP address				
Destination IP address				
ICMP Advertisement Message				
16		8	1456	
10800			0	Reserved

9. See Figure 10.E9.

Figure 10.E9 Solution to Exercise 9

4	5	0	length	
42			0	0
15	Protocol		Header checksum	
200.4.7.14				
130.45.6.7				
Data				

11. See Figure 10.E11.

Figure 10.E11 Solution to Exercise 11

4	5	0	length	
207			0	0
15		Protocol	Header checksum	
14.67.34.30				
14.56.8.9				
4	5	0	length	
42			0	0
15		protocol	Header checksum	
200.4.7.14				
130.45.6.7				
Data				

13. Triangle routing is a case of inefficiency. The packet travels to an extra network before it reaches the destination.