

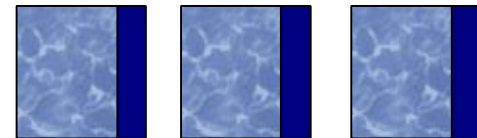
Implementation and Interoperability issues in Mobile-IPv4

Ashish Mehta
Sun Microsystems
ashish.mehta@sun.com

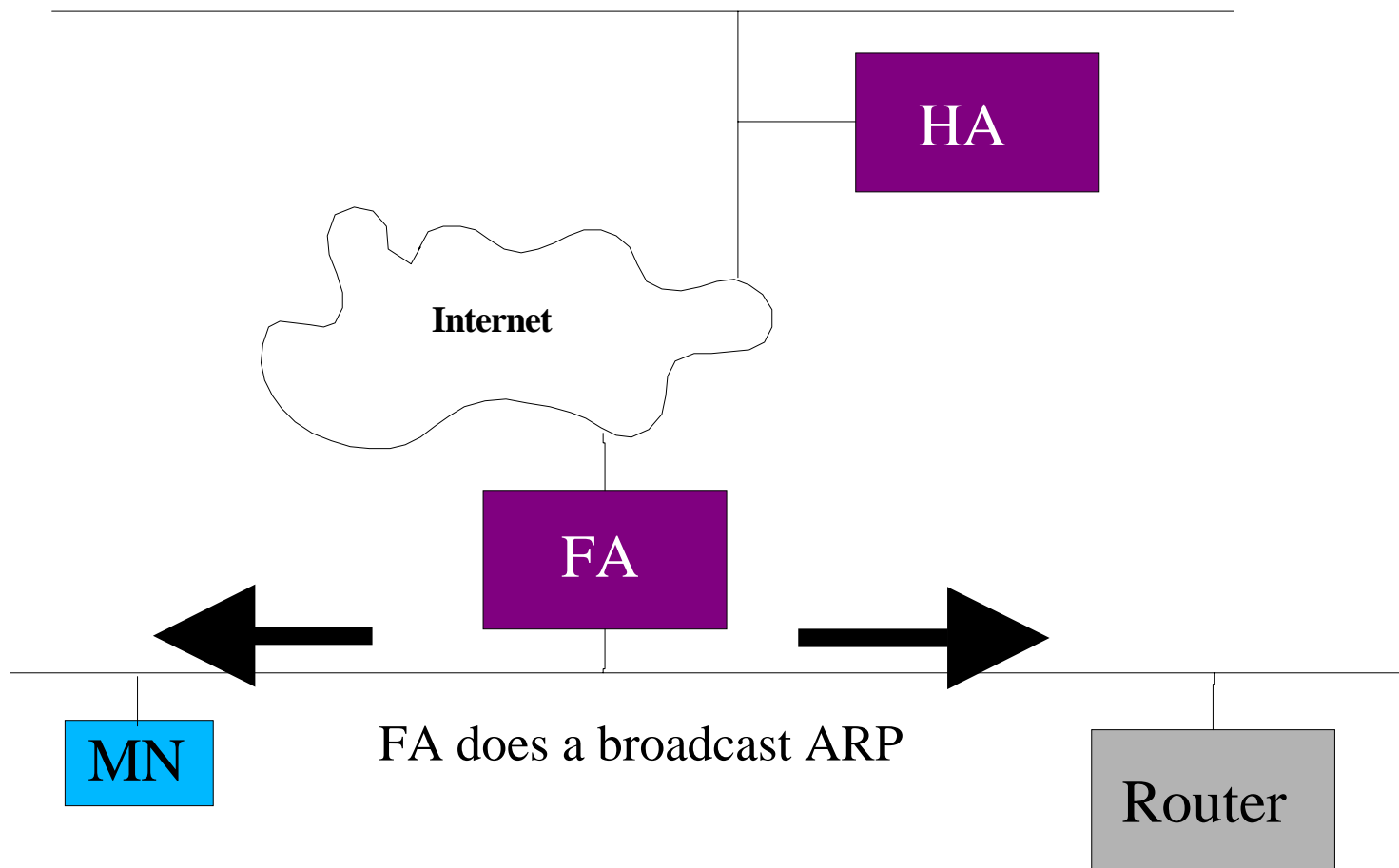


Outline of talk

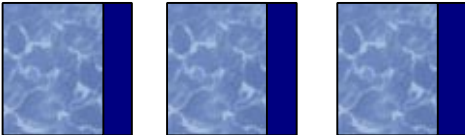
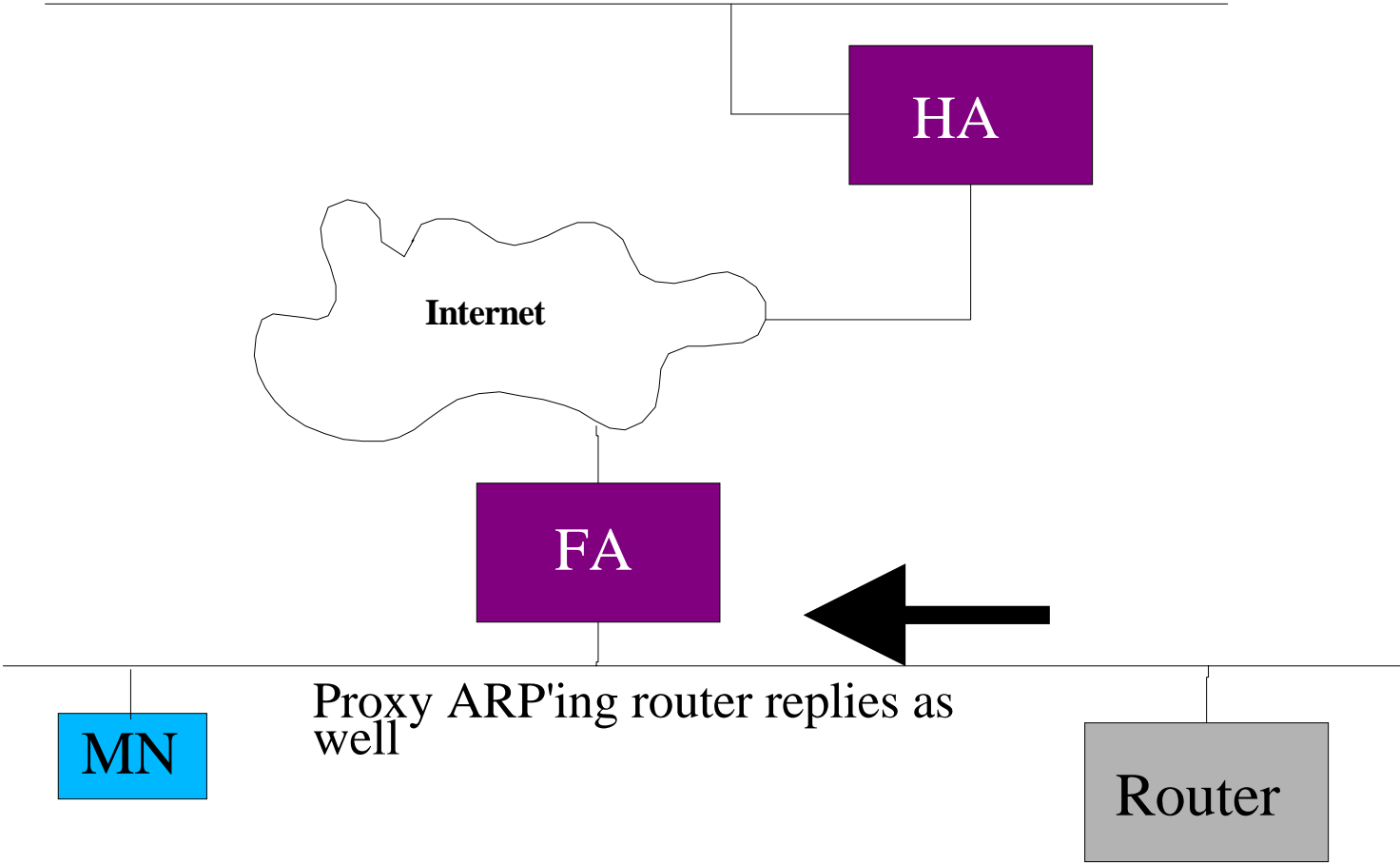
- FA and broadcast ARP'ing
- Getting MN's source link layer address
- Routing traffic to MN from CN



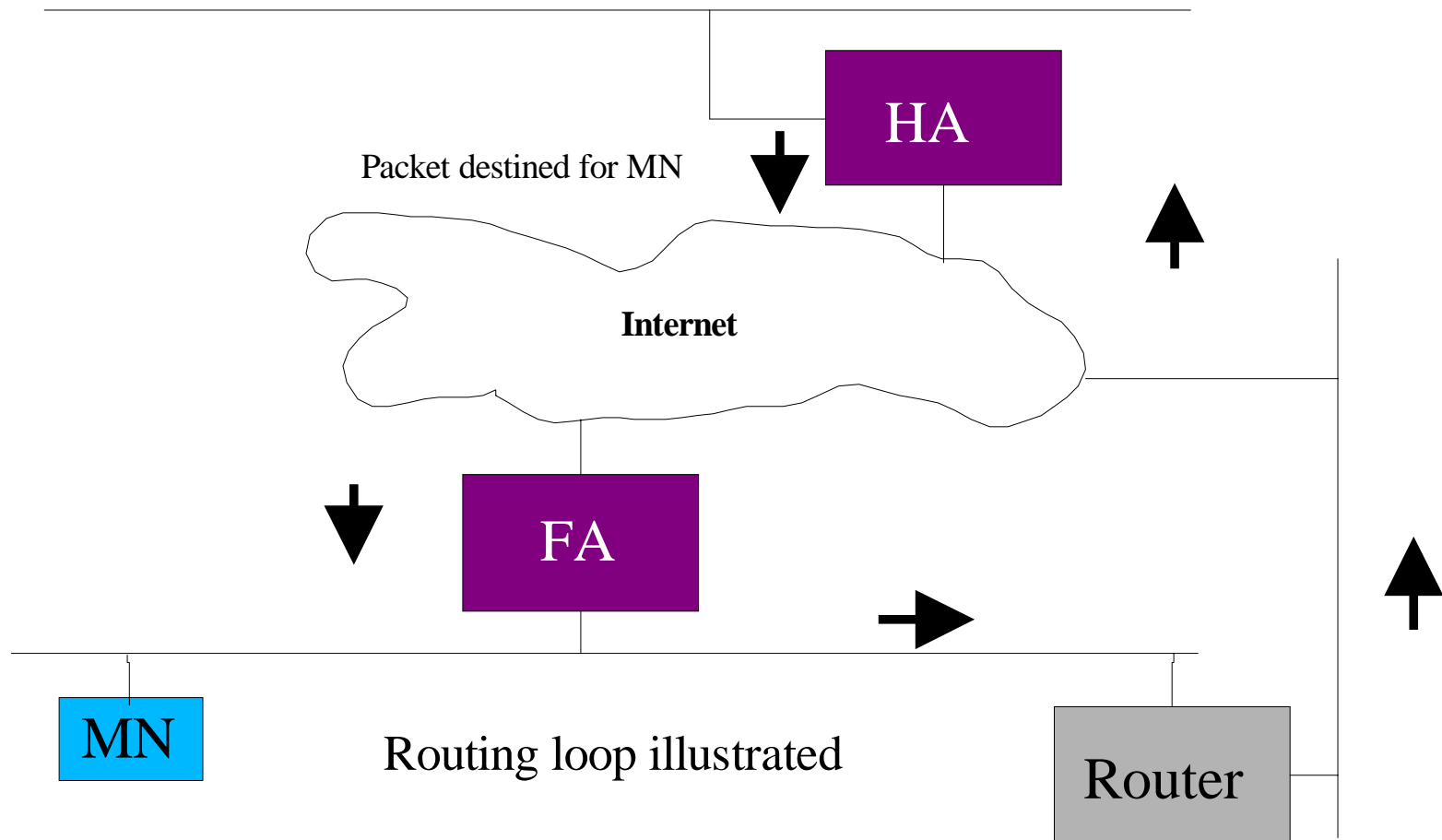
FA and broadcast ARP'ing



FA and broadcast ARP'ing



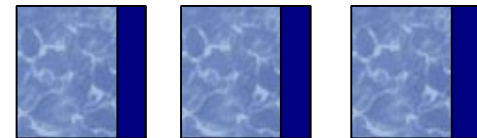
FA and broadcast ARP'ing



FA and broadcast ARP'ing

Prevention:

- 、 Get MN's source link layer address from Registration request.
- 、 Add entry in ARP cache pre-emptively
- 、 Mark entry as permanent
- 、 Delete entry when MN removed from visitors list



Getting source link layer address

- Get it from Registration request
- To prevent the FA from broadcast ARP'ing
- Problem:
 - Device drivers could be third party, hence no control over what link layer header information gets passed up the stack
 - Have to rely on heuristics e.g: 14 bytes before IP header is the ethernet header



Routing MN traffic from CN

