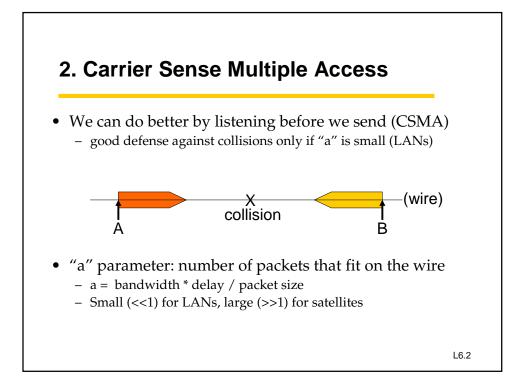
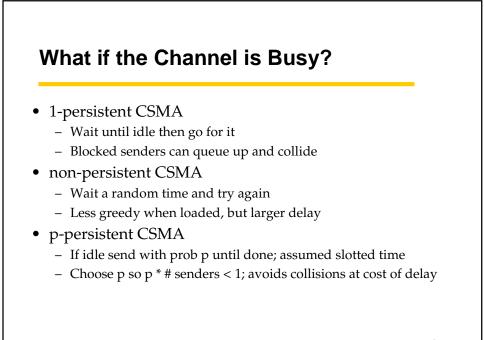
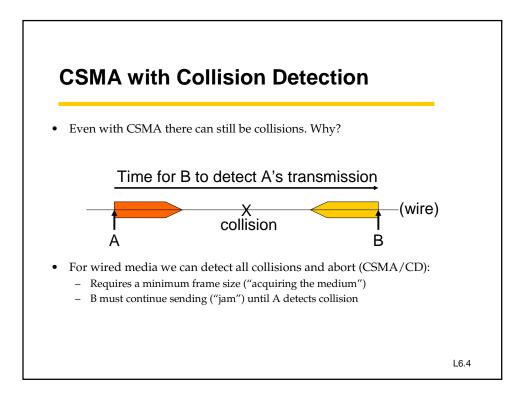
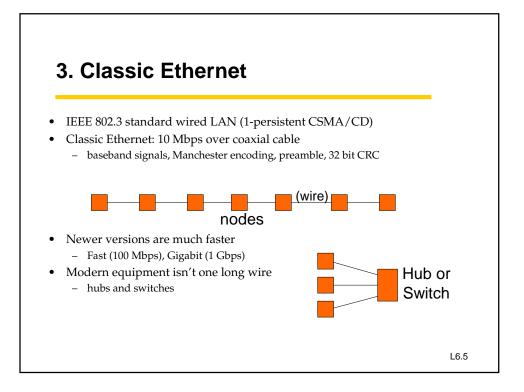
CSE/EE 461 – 10/15/04 CSMA/CD, Wireless and Contention-Free Protocols

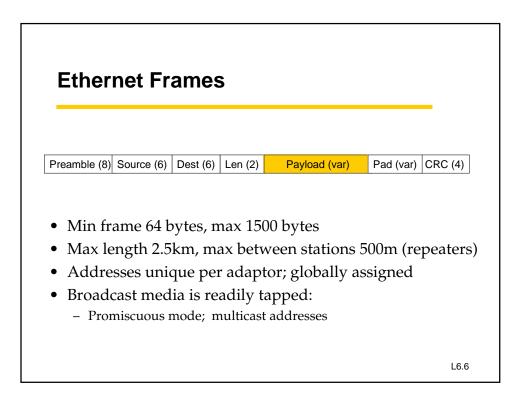














- Build on 1-persistent CSMA/CD
- On collision: jam and exponential backoff
  - Jamming: send 48 bit sequence to ensure collision detection
- Backoff:
  - First collision: wait 0 or 1 frame times at random and retry
  - Second time: wait 0, 1, 2, or 3 frame times
  - Nth time (N<=10): wait 0, 1, ..., 2<sup>N</sup>-1 times
  - Max wait 1023 frames, give up after 16 attempts
  - Scheme balances average wait with load



