1/16/07

Ethernet CSMA/CD
802.11 CSMA/CA

Two modes
1. Distributed Coordination Function [DCF]
2. Polling Point Coordination Function [PCF]
Frames
(1) Data
(2) Control
(3) Management

Data Frame

2 6 6 6 2 6
Frame Control
Duration

Data
Check sum
0-2312

$34 + (0-2312)$
Frame Control (16 bits)
2 - Version
2 - Data, Control, Management
4. Subtype: RTS, CTS
1 To DS: Wired Ethernet
1 From DS
1 Move Fragment ←
1 Retry
1 Power
1 Move - more frames
1 W - Encrypted
1 O - Receiver Strict in order
Interframe Spacing

Time slot: 9 µsec

Short Interframe Spacing
SIFS - 16 µsec

PIFS - PCF frames
25 µsec

DIFS - DCF frame
34 µsec

RTS, CTS Data Ack
Virtual Channel Sensing

RTS - Request to Send
CTS - Clear to Send.

A→B

A

B

C Busy

D