Doc: IEEE P802.11-93/159a

Frame Prioritization in a CSMA/CA Media Access Control Protocol

Rick White Motorola Wireless Data Group

Presentation

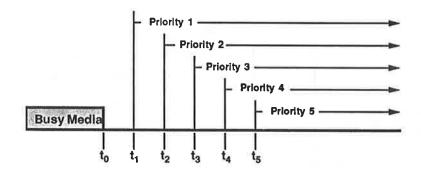
Silde 1

Rick White, Motorola

September 1993

Doc: IEEE P802.11-93/159a

Prioritization using Timed Interframe Spacing

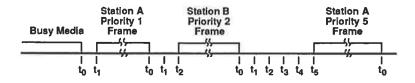


Presentation

Silde 2

Doc: IEEE P802.11-93/159a

Prioritization Example



- · Station A
 - Priority 1 Frame
 - Priority 5 Frame
- Station B
 - Priority 2 Frame

Presentation

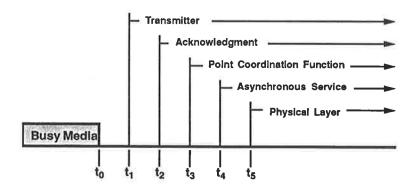
Slide 3

Rick White, Motorola

September 1993

Doc: IEEE P802.11-93/159a

Traffic Prioritization

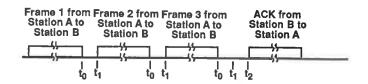


Presentation

Slide 4

Doc: IEEE P802.11-93/159a

Multi-Frame Windowing



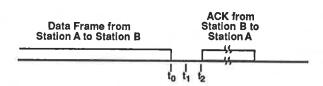
- · Three Frames From Station A to Station B
- ACK Frame from Station B to Station A

Presentation Slide 5 Rick White, Motorola

September 1993

Doc: IEEE P802.11-93/159a

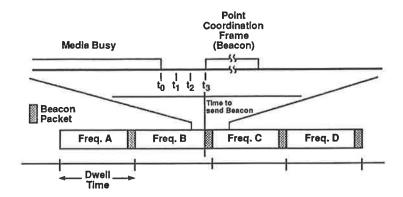
Priority 2 - Acknowledgment



Presentation Silde 6 Rick White, Motorola

Doc: IEEE P802.11-93/159a

Frequency Hop Synchronization

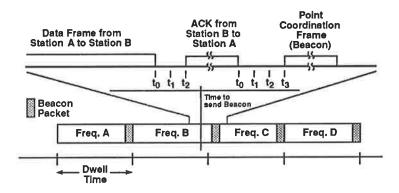


Presentation Silde 7 Rick White, Motorola

September 1993

Doc: IEEE P802.11-93/159a

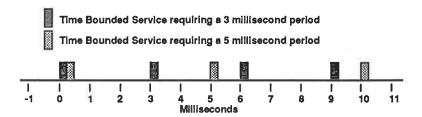
Dwell Stretching using Prioritization



Presentation Silde 8 Rick White, Motorola

Doc: IEEE P802.11-93/159a

Time Bounded Services Requiring Different Periods

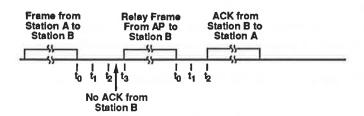


Presentation Silde 9 Rick White, Motorola

September 1993

Doc: IEEE P802.11-93/159a

Transparent Relay

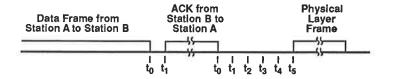


Presentation

Slide 10

Doc: IEEE P802.11-93/159a

Priority 5 - Physical Layer



Presentation

Slide 11

Rick White, Motorola

September 1993

Doc: IEEE P802.11-93/159a

Conclusions

- Enhancement of existing MAC proposal
- Supports Time Bounded Services without the requirement of a TDMA frame
- Provides windowing of multi-packet transmissions
- Provides transparent relay when an Access Point is present
- Provides synchronization in a frequency hopping system
- Allows Physical Layer to transmit packets independent of the MAC

Presentation

Slide 12