

## Tentative Minutes of the MAC/PHY subgroup of the IEEE P802.11 Working Group

**Interim meeting  
San Jose, California  
January 9-12, 1995**

### Tuesday, January 10, 1995, AM

The meeting was called to order by the Chairman, Vic Hayes, at 1040.

Ed Geiger proposed that the discussion start with the examination of the PHY terms, with reference to a timing diagram applicable to the FH PHYs.

Unfortunately, technical difficulties associated with Ed's computer militated against this presentation. After a short delay, the presentation was started using manual display methods.

Ed pointed out that the use of gain antennas could lead to ranges of up to 26 miles, with concomitant propagation delays of as much as 140  $\mu$ s. A lively discussion ensued as production of the diagram proceeded. Several speakers felt that timings should be measured at the antenna port as being the accessible interface.

Meeting adjourned at 1230: resumption time of 0900, Wednesday 11th Jan.

Moved by Peter Chadwick, Seconded Paul Struhsaker.

### Wednesday, January 11, 1995, AM

Chair called the meeting to order at 0915.

Wim Diepstraten provided his electronic version of the diagram that Ed Geiger produced (See Figure 2); Ed distributed paper copies. There was much discussion. It was agreed that there needed to be a bounded limit on the medium SIFS. Greg Ennis said that in the MAC spec, the concept introduced by Wim Diepstraten of the MAC SIFS should be described together with its derivation from the various delays in the PHY implementations.

**Motion # 1:** *All compliant units will meet the medium xIFS timing requirement and will calculate its implementation dependent MAC xIFS from the equations to be provided, where x includes S, P, D*

Moved by: Dean Kawaguchi

Seconded by: Ed Geiger

Motion # discussion: none

**Approved: 25**

**Disapproved: 0**

**Abstain: 2**

**Motion #1 passes**

**Motion # 2:**

*The MAC should use a one way medium propagation delay (aChannel\_Transit\_Delay) of 1  $\mu$ s in the FH-PHY and DS-PHY to calculate the medium SIFS and slot times and 5  $\mu$ s to calculate the MAC acknowledge time-out*

Moved by: Dean Kawaguchi  
Seconded by: Michael Fischer

Motion # discussion: none

**Approved: 19      Disapproved: 1      Abstain: 7      Motion #2 passes**

Jim McDonald reported the spirited discussions held in the informal FH group on Tuesday January 10th. Larry Zuckerman said that he was preparing a submission which would cover this area, and recommended that any decision be delayed.

Barry Dobyms pointed out there was a difference between tests made by a manufacturer with his special knowledge of a particular equipment, and the tests that an outside test house could do. Ed Geiger suggested that at some stages, specification of antennas be provided.

Adjournment proposed by Jerry Loraine, seconded Rick White, passed by acclamation/

Figure 1 Drawing produced by Ed Geiger. (to be provided)

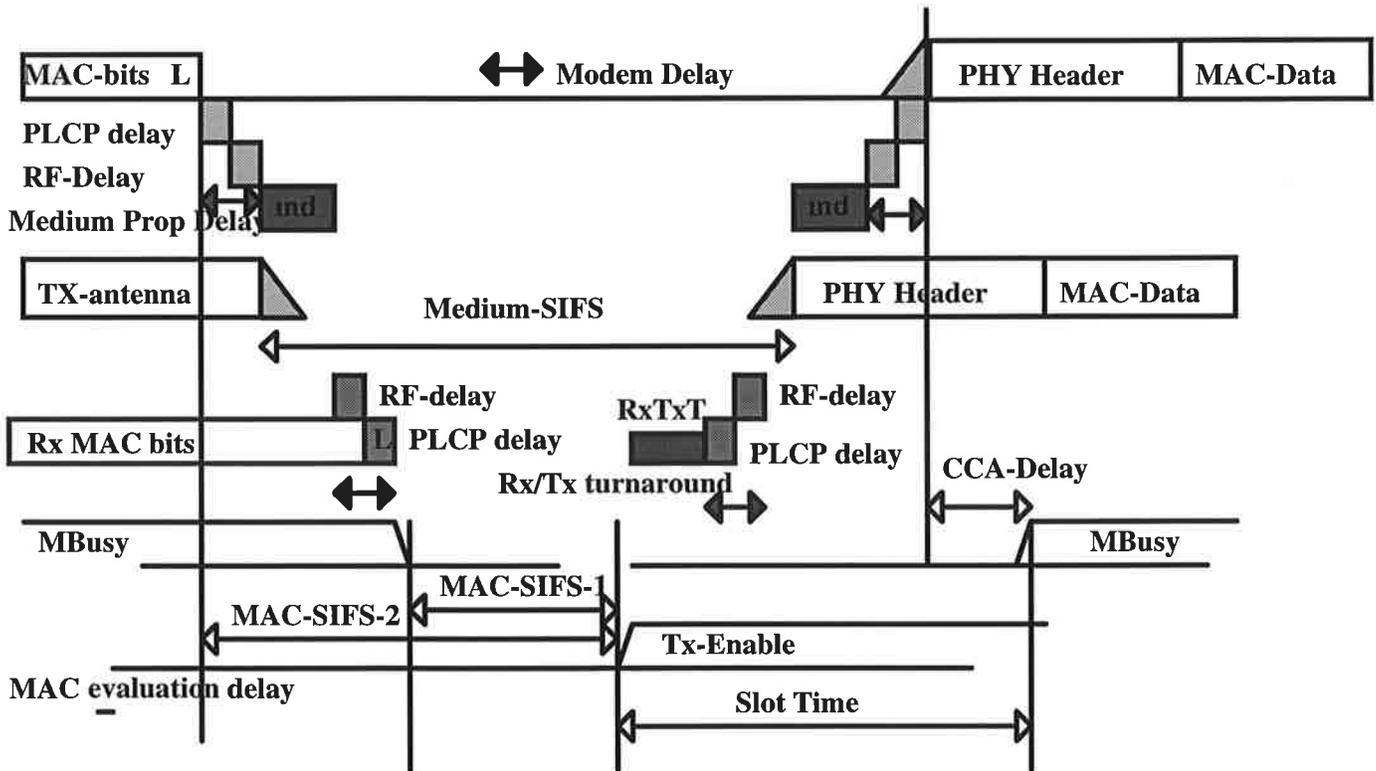


Figure 2 Drawing produced by Wim Diepstraten

