

**Minutes of DS-PHY (11 July 1995)  
Maui, HI**

**Attendees:**

Jan Boer (AT&T)  
Al Petrick (Harris)  
John Fakatselis (Harris)  
Mike Trompower (Aironet)  
Jonathon Cheah (Solectek)  
Larry Peterson (AMI)  
Dennis Hara (Seattle Silicon)

Minutes of May meeting in Salt Lake City approved by consensus.

**Agenda for this meeting set:**

- review status of standards document
- BER vs FER (Wednesday)
- CCA discussion

Review of draft v1.2 (now section 12) with comments shown as revision bars in document 1195xxx.doc

Mike Trompower (Aironet) will continue with the DS-PHY editorial duties and update the current section 12 with all changes necessary to bring uniformity between other sections of the draft standard. The reference model figures 12-1 and 12-9 will be changed to reflect those currently used in section 4. Updating of figures 12-3 will occur to eliminate the power point import which causes problems for printing. Figures 12-5,12-6 and 12-7 will occur to reflect current primitives and correct misspellings. Scrambler polynomial representations will be changed to be consistent.

Adjourn for full PHY meeting.

Restart of DS PHY meeting. Agree to use common MIB and primitive list with the FH list as the starting point. Place all MIB variables in section 9 and create an appendix for DS specific values.

**Minutes of DS-PHY (12 July 1995)  
Maui, HI**

**Attendees:**

Jan Boer (AT&T)  
Al Petrick (Harris)  
John Fakatselis (Harris)  
Mike Trompower (Aironet)  
Jonathon Cheah (Solectek)  
Larry Peterson (AMI)  
Dennis Hara (Seattle Silicon)  
Don Sloan (Aironet)

Discussion of last nights MAC-PHY interface meeting.

Discussion of modification of CCA algorithm to allow a change which will allow CCA inactive case when correlation (carrier sense) is not found.

Motion by Don Sloan (Aironet) second by Larry Peterson (AMI) passed 6-0-0 in DS PHY

Motion to adopt a change to the CCA algorithm to allow additional flexibility. The text which was approved follows:

The CCA shall be TRUE if there is no energy detect or carrier sense. If ED is active without carrier sense being active, then CCA is allowed to go TRUE. The CCA parameters are subject to the following criteria:

- a) The energy detection threshold shall be less than or equal to -80 dBm for TX power > 100 mW, -76 dBm for 50 mW < TX power <= 100 mW, and -70 dBm <= 50 mW.
- b) The worst case latency of the detection of an energy change across the ED threshold incident on the receiver antenna to the reporting of channel busy shall be less than or equal to 15 usec or by the next slot boundary occurring after the 15 usec has elapsed. This implies that the CCA signal is available as an exposed test point.
- c) The CCA state machine shall be reset upon transition from the TX state to the RX state.

Conformance to DSSS PHY CCA shall be demonstrated by applying a DSSS compliant signal (above and below the appropriate energy detect threshold) such that all conditions described above are demonstrated.

Discussion of MIB variables. Creation of 'Appendix A' to section 12 which will contain the DSSS PHY specific values. All MIB variable definitions will be contained in section 10. In addition to all variables currently defined, three additional variables will be defined and brought to the the full PHY for approval and inclusion in section 10.

aRadio\_Type to be defined and included in section 10. This variable will define the operational temperature range of the radio.

aSleep\_Turnon\_Time to be defined as the time required before operation after a sleep period.

aDoze\_Turnon\_Time to be defined as the time required before operation after a doze period.

Motion to accept the above variables and bring forward to full PHY passed (6-0-0)

Continuation of editorial work on section 12.2.6 and 12.2.7. Updating of figures and text to bring in line with current primitives and MIB variables.

Motion by John Fakatselis second by Don Sloan to change the following text of section 12.

**PLCP 802.11 Service Field (SERVICE)**

The 8 bit 802.11 service field is reserved for future use. The value of h00 signifies 802.11 device compliance. The LSB shall be transmitted first in time. This field is protected by the CCITT CRC-16 frame check sequence described in section 12.2.3.6.

Additional discussion of editorial correctness.

At full PHY meeting, the three additional MIB variables were voted to include in sections 9 and 10.

**Minutes of DS-PHY (13 July 1995)  
Maui, HI**

**Attendees:**

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Al Petrick (Harris)

John Fakatselis (Harris)

Mike Trompower (Aironet)

Jonathon Cheah (Solectek)

Larry Peterson (AMI)

Dennis Hara (Seattle Silicon)

Continue with section 12.2.6 for editorial changes.

at full PHY meeting: motion to accept changes put forward in document 1195176.doc

DS PHY: 6-0-0

full PHY: 14-2-4