

Tuesday, July 13, 1999 14:22:08

**P802.11a Draft D6.0 Comments and Resolutions**

CI 00 SC Table 80 P L # 91

BRAN Vote

Comment Type E Comment Status D

Table 80 shall follow ETSI BRAN's table.

*SuggestedRemedy*

Proposed Response Response Status W

PROPOSED REJECT.

The 4 bit patterns are used in 802.11a (Table 80) and in BRAN/MMAC-WATM in different layers, and for that reason the need to harmonize the patterns is not critical. In the case of 802.11a, the bits R1-R2 are indicative of the modulation type used, while in BRAN proposal this rule is not followed. In addition, the use of R4=1 value is intentional in order to reduce the probability of degenerate OFDM symbol after the convolutional encoding and Fourier transform.

**P802.11a Draft D6.0 Comments and Resolutions**

CI **XX** SC **17.3.12** P **42** L **5** # **74**  
 John Deane CSIRO Australia Vote VAC

Comment Type **TR** Comment Status **R**

6. State RX SIGNAL PARITY cause for transition back to IDLE is PARITY FAIL or PMD-RSSI.ind below threshold and PHY\_CCA.ind(IDLE) is an action.

1. Cause of state transition RX IDLE to DETECT PLCP PREAMBLE not given. Presumably PMD-RSSI.ind above the threshold for preamble processing.

2. In DETECT PLCP PREAMBLE state the mechanism for 'wait for SIGNAL' is not clear. Presumably 'wait for PMD-data.ind'

3. Cause of transition from DETECT PLCP PREAMBLE back to IDLE is not clear. Presumably Timeout or PMD-RSSI.ind below threshold.

4. Same transition 'PHY\_CCA.ind(IDLE) is NOT a cause it is an action BY the PLCP to the MAC layer! So distinguish causes & actions.

5. State RXPLCP FIELDS cause for transition back to IDLE is unclear. Presumably PMD-RSSI.ind below threshold.

7. State RX SYMBOL exit conditions CCA(IDLE) & CCA(BUSY) are not defined. Possibly PMD-RSSI.ind below threshold.

*SuggestedRemedy*

Included in the comment.

Proposed Response Response Status **C**

REJECT. For item 6 only. All others have been accepted.  
 6. State RX SIGNAL PARITY cause for transition back to IDLE is PARITY FAIL or PMD-RSSI.ind below threshold and PHY\_CCA.ind(IDLE) is an action.  
 -> The IDLE indication is a signal which can be used to condition an action. (This item will be discussed in the next meeting.)

The following have been accepted by the commenter:

1. Cause of state transition RX IDLE to DETECT PLCP PREAMBLE not given. Presumably PMD-RSSI.ind above the threshold for preamble processing.  
 -> added "PHY-CCA.indicate (busy)"

2. In DETECT PLCP PREAMBLE state the mechanism for 'wait for SIGNAL'

is not clear. Presumably 'wait for PMD-data.ind'  
 -> Changed the contents of the box. The labels of the conditions were changed as well. Please look up the figure.

3. Cause of transition from DETECT PLCP PREAMBLE back to IDLE is not clear. Presumably Timeout or PMD-RSSI.ind below threshold.  
 -> The transition back to idle state can result either from absence of signal or from failure to receive and decode properly the SIGNAL field. See the corrected figure (Fig. 125).

4. Same transition 'PHY\_CCA.ind(IDLE) is NOT a cause it is an action BY the PLCP to the MAC layer! So distinguish causes & actions.  
 -> The IDLE indication is a signal which can be used to condition an action.

5. State RXPLCP FIELDS cause for transition back to IDLE is unclear. Presumably PMD-RSSI.ind below threshold.  
 ? The IDLE indication is a signal which can be used to condition an action. This takes account of the case where signal is lost after successful decoding of the SIGNAL field.

7. State RX SYMBOL exit conditions CCA(IDLE) & CCA(BUSY) are not defined. Possibly PMD-RSSI.ind below threshold.  
 -> They are "PHY\_CCA.ind(IDLE) and PHY\_CCA.ind(BUSY).

CI **XX** SC **17.3.3** P **19** L **90**  
 BRAN Vote

Comment Type **TR** Comment Status **D**

ETSI BRAN accepted a request by Masahiro Morikura to change the short training sequence to the one described in his comment to 802.11. We're asking 802.11a to accept it as well, in order to enhance the alignment between the standards.

*SuggestedRemedy*

Accept comment 88.

Proposed Response Response Status **W**

PROPOSED ACCEPT.  
 Change equation 6 as comment 88 suggested except for sqrt(2), but sqrt(13/6) as comment 89 suggested.



Tuesday, July 13, 1999 14:22:10

P802.11a Draft D6.0 Comments and Resolutions

Cl **XX** SC **Annex E** P L # **59**  
Bob Ward Vote VA

Comment Type **TR** Comment Status **R**

· Recommend that the informative windowing be deleted in order that the example follow the normative part of the standard.

SuggestedRemedy

Proposed Response Response Status **C**

REJECT.  
The commenter agreed to retain the windowing function in the Annex while stressing in the text that a non-normative feature is being illustrated.