IEEE P802.11  
Wireless LANs

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| aSlotTime confusion, CID 229 | | | | |
| Date: 2013-01-17 | | | | |
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Abstract

This is a copy of the most recent words and the drawing in the e-mail chain discussing resolution to CID 229 of REVmc Working Group Ballot Comments

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| CID | Clause | Comment | Proposed change |
| 229 |  | Why is there a +aSlotTime in the stuff related to the various timeouts anchored off PHY-TXEND? This seems wrong | Remove the + aSlotTimes |

# Discussion

Proposed resolution is:

In subclauses 9.3.2.6, 9.3.2.8 and 9.19.2.5, replace "aSIFSTime + aSlotTime + aPHY-RX-START-Delay" with "aSIFSTime + aAirPropagationTime + aPHY-RX-START-Delay".

In the "aPHY-RX-START-Delay" row in the table in 6.5.4.2 change "from a point in time specified by the PHY" to "from the start of the PPDU transmission".

In the "aMACProcessingDelay" row in the table in 6.5.4.2 change "The maximum time (in microseconds) available for the MAC to issue a PHY-TXSTART.request primitive pursuant to a PHY-RXEND.indication primitive (for response after SIFS) or PHY-CCA.indication(IDLE) primitive (for response at any slot boundary following a SIFS)."

to

"The maximum time (in microseconds) available for the MAC to take appropriate action following an indication from the PHY."

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This leaves the following for D1.0:

- The 2 x aSlotTimes in 9.3.2.4 (twice) and 9.4.4.4

- The actual values of aPHY-RX-START-Delay for OFDM and HT

- Whether aMACProcessingDelay should be a PHY characteristic at all

I attach a timing diagram to illustrate why I think the right answer is the answer I give above. Note that I've assumed it takes the same amount of time for the MAC to start a timeout (in response to TXEND.cfm) as it does for it to cancel it (in response to RXSTART.ind); those paying attention will note that I used to have a + aMACProcessingDelay in my answer which I don't anymore!

