IEEE P802.11  
Wireless LANs

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| REVmc Preballot Resolutions - CID 270-105 | | | | |
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Abstract

Resolutions to PHY CIDs 270 and 105

# CID 270

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| **CID** | **Comment** | **Proposed Change** |
| 270 | Short slot timing equations are broken. We have that:  Slot = D + CCAdel + M + TA  CT + M + TA  where D = aRxRFDelay + aRxPLCPDelay M = aMACProcessingDelay TA = aRxTxTurnaroundTime CT = aCCATime  [I'm making D = D1 ~= D2 because aAirpropagationTime << 1 us, and I'm also making M = M1 = M2 because that's what's specified.]  However, for all PHYs on the market (i.e. not IR or FH), aMACProcessingDelay is given as < or <= 2 us and aRxTxTurnaround time is <= 5 us for DS and HRDS, < 5 us for ERP, < 2 us for OFDM and HT. aCCATime is < 15 us for DS and HRDS and long-slot ERP, < 4 for 20 MHz OFDM, short-slot ERP and HT.  So for short slots the equation comes to 9 = < 4 + < 2 + < 2, which cannot be satisfied. | Bump aRxTxTurnaroundTime on the short slot PHYs up from < 2 us to < 3 us or even (for consistency with the long slot PHYs) < 5 us.  Or just say that at least one of aMACProcessingDelay and aRxTxTurnaroundTime should be implementation-dependent as long as aSIFSTime is met - would need to check any knock-on effects of this change. |

**Proposed Resolution:**

Revise - Make the changes as proposed in 11-12/1256r9.

Changes proposed in 12/1256r9 already cover the second proposed solution (Or just say that at least one of ...should be implementation-dependent as long as ...).

# CID 105

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| **CID** | **Page** | **Clause** | **Duplicate of CID** | **Resn Status** | **Comment** | **Proposed Change** |
| 105 | 1553.00 | 17.3.3 |  |  | Why does the HR PHY have such a big max MPDU length? All other PHYs have a maximum of 4095 | In Table 16-2 change the 13 to a 12 for aMPDUMaxLength (note corresponding changes to 802.11ac in clause 8) |

**Proposed Resolution:**

Reject.

The comment refers to clause 17.3.3 and to the HR PHY, but then the proposed changes mention table 16-2 which belongs to the DS PHY.

Assuming the comment referse to the DS PHY and to table 16-2, the commenter doesn’t give a reason why the MPDU length should be changed to 4095.

Lack of consistency with other PHYs is not a good enough reason to change the existing language and potentially making existing implementations non compliant. The DS PHY does appear to support the transmission of an 8193-bit MPDU.