IEEE P802.11
Wireless LANs

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| TGah D0.1 Comment Resolutions on PHY |
| Date: 2013-07-12 |
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Abstract: **PHY Comment Resolutions for Clauses *24.4***

##### CIDs for Clause 24.1

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| 549 | Mitsuru Iwaoka | 24.4.2 | 295.15 | As a travelling pilot is optional for S1G PHY, MIBs for travelling pilot are necessary. | Insert the following two entry to end of dot11PHYS1GTable of Table 24-34.---dot11S1GTravellingPilotOptionImplemented | Implementation dependent | Staticdot11S1GTravellingPilotOptionActivated | Implementation dependent | Dynamic | **Revise**Modify the specification as proposed in this document for CID 549 |
| 729 | Ronald Murias | 24.4.2 | 292.13 | Text refers to MIB attributes in Annex C, which do not exist. | Define MIB attributes in Annex C. | **Deferred reflecting discussions on July 16th** |
| 871 | Yongho Seok | 24.4.3 | 296.23 | Short GI TXTIME equations 24-61, 24-63 and 24-65 are miscalculated because the first data symbol always uses a long GI. | Correct the equations 24-61, 24-63 and 24-65. Assign the comment to me. | **Revise**Modify the specification as proposed in this document for CID 871 |
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**CID 549:**

The commenter is correct that travelling pilot capability and activation should be in the MIB. But the proposed PHY MIB parameters should be in the dot11PHYSIGTable, instead of dot11TransmitBeamformingConfigTable.

*TGah Editor: Pls insert following raws at the end of dot11PHYS1GTable in Table 24-34—SIG PHY MIB attributes, at line16, page 295, for clause 24.4.2 PHY MIB:*

|  |  |  |
| --- | --- | --- |
| dot11S1GTravellingPilotOptionImplemented | Implementation dependent | Static |
| dot11S1GTravellingPilotOptionActivated | Implementation dependent | Static |

**CID 729 (Deferred reflecting discussions on July 16th)**

The commenter is correct that the referred Annex C needs to be updated to reflect S1G MIB parameters. Actually not only the S1G PHY MIB parameters but also the S1G MAC MIB parameters need to be updated. The updating to Annex C will depend on the progress of TGah and Revmc. Considering the stability of current 11ah spec draft, I personally don’t think it’s a right time to update Annex C for S1G now.

**CID 871**

The commenter is correct that the first data symbol of S1G frame will always use long GI.

*TGah Editor: Please modify formula (24-61), (24-63) and (24-65) as follows:*

$TXTIME=\left\{\begin{array}{c}T\_{PREAMBLE}+T\_{SIG}+T\_{LTF}∙\left(N\_{LTF}-1\right), if N\_{SYM}=0 \\T\_{PREAMBLE}+T\_{SIG}+T\_{LTF}∙\left(N\_{LTF}-1\right)+T\_{SYML}+T\_{SYMS}∙\left(N\_{SYM}-1\right),if N\_{SYM}>0\end{array}\right.$ (24-61)

$TXTIME=\left\{\begin{array}{c}T\_{PREAMBLE}+T\_{SIG-A}+T\_{D\\_PREAMBLE}+T\_{SIG-B}, if N\_{SYM}=0 \\T\_{PREAMBLE}+T\_{SIG-A}+T\_{D\\_PREAMBLE}+T\_{SIG-B}+T\_{SYML}+T\_{SYMS}∙\left(N\_{SYM}-1\right),if N\_{SYM}>0\end{array}\right.$ (24-63)

$TXTIME=\left\{\begin{array}{c}2T\_{PREAMBLE}+3T\_{SIG}+T\_{LTF}∙\left(N\_{LTF}-1\right), if N\_{SYM}=0 \\2T\_{PREAMBLE}+3T\_{SIG}+T\_{LTF}∙\left(N\_{LTF}-1\right)+T\_{SYML}+T\_{SYMS}∙\left(N\_{SYM}-1\right),if N\_{SYM}>0\end{array}\right.$ (24-65)