IEEE P802.11
Wireless LANs

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| LB 200 cluase 9.3.7 comment resolution |
| Date: 2013-11-11 |
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Abstract

This submission proposes comment resolutions of the clause 9.3.7 from TGah Draft 1.0.

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGah Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGah Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGah Editor: Editing instructions preceded by “TGah Editor” are instructions to the TGah editor to modify existing material in the TGah draft. As a result of adopting the changes, the TGah editor will execute the instructions rather than copy them to the TGah Draft.***

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| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 2846 | 162 | 9.3.7 | "A DCF shall use EIFS before transmission, when it determines that the medium is idle following reception of a frame for which the PHY-RXEND.indication primitive contained an error or a frame for which the MAC FCS value was not correct."The error condition of the PHY-RXEND.indication primitive includes the format violation. If the PHY header is receivable, but the parity check of the PHY header is not valid, the PHY shall indicate the error condition using a PHY-RXEND.indication(FormatViolation) primitive.In that case, the EIFS shall be set to aSIFSTime + DIFS + ACKTxTime, instead of DIFS. | When an error condition of the PHY-RXEND.indication primitive is FormatViolation, the EIFS shall be set to aSIFSTime + DIFS + ACKTxTime. But, if the length of errored PPDU is same as the NDP MAC frame, EIFS shall be set to DIFS. | Revised-TGah editor to make changes shown in 11-13/1423r0 under the heading for CID 2846, 1720 |
| 1720 | 162 | 9.3.7 | Redefining "EIFS" in a completely different way from that used for other STAs will only create confusion in this standard. Instead, specify the S1G STA as one that does not support EIFS. | Replace this sentence with "The S1G STA does not support EIFS slots." | Revised-TGah editor to make changes shown in 11-13/1423r0 under the heading for CID 2846, 1720 |

**CID 2846, 1720**

**Discussion:**

Regarding CID 2846-

When the PHY-RXEND.indication primitive contains an error, the STA can not predict the response type from the PLCP SIG field. Only one predictable situation is an error of the NDP MAC frame. If the duration of the errored PPDU is equal to the PPDU duration of the NDP MAC frame, then the EIFS shall be set to DIFS. Otherwise, after receiving a frame for which the PHY-RXEND.indication primitive contains an error, EIFS shall be set to aSIFSTime + DIFS + ACKTxTime.

Regarding CID 1720-

When the PHY-RXEND.indication primitive contains an error, the EIFS for the S1G STA is set to aSIFSTime + DIFS + ACKTxTime. It is not correct that the S1G STA does not support EIFS slots.

**Propose:**

Revised for CID 2846, 1720, per discussion and editing instructions in 11-13/1423r0.

***TGah editor: Modify the sub-clause 9.3.7 as the following:***

**9.3.7 DCF timing relations**

***Change the following paragraphs in the sub-clause 9.3.7 as follows:***

For non-S1G STAs, the EIFS is derived from the SIFS and the DIFS and the length of time it takes to transmit an ACK frame at the lowest PHY mandatory rate by Equation (9-6).

EIFS = aSIFSTime + DIFS + ACKTxTime (9-6)

where

ACKTxTime is the time expressed in microseconds required to transmit an ACK frame, including preamble, PHY header and any additional PHY dependent information, at the lowest PHY mandatory rate.

For S1G STAs, the EIFS is set to DIFS if the S1G STAs receive a frame for which the PHY-RXEND.indication primitive does not contain FormatViolation. Otherwise, the EIFS for the S1G STA is derived by the Equation 9-6.