### IEEE P802.11Wireless LANs

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| 11ax D1.0 MAC Comment Resolution for 27.11.5 |
| Date: 2017-02-15 |
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Abstract

This submission proposes resolutions for comments of TGax Draft 1.0 with the following CIDs:

* 8394, 5215, 7142, 10292

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Revise “all 1s” with “UNSPECIFIED” to coordinate with the submission from Jeongki
* Rev 2: Revise the resolution for TXOP responder decision for responding HE SU PPDU or HE extended range SU PPDU. TXOP responder can have flexibility if the TXVECTOR parameter TXOP\_DURATION is not set to UNSPECIFIED based on the comment from Alfred

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 TGax D1.0 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGax D1.0 Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

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

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| **CID** | **Commenter** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 8394 | Po-Kai Huang | 197.44 | 27.11.5 | Based on the new response rule in 27.15.2, it is now possible that a TXOP responder transmits HE extended range PPDU. As a result, the setting rule of TXOP Duration field for the HE extended range PPDU response needs to be defined. | Add the setting rule when the TXOP responder transmits HE extended range PPDU. The rule can just aligns with the setting rule when TXOP responders transmits HE TB PPDU. | Revised –Agree in principle with the commenter. Based on the current rule in 27.15.2, a TXOP responder may respond with HE SU PPDU or HE ER SU PPDU. In this case, the solicing PPDU is also carried in HE SU PPDU or HE ER SU PPDU. Follow the current setting rule of TXOP Duration field in HE TB PPDU to add rule for the response of HE SU PPDU and HE ER SU PPDU if the TXVECTOR parameter TXOP\_DURATION does not indicate duration information. Give flexibility to TXOP responder if the TXVECTOR parameter TXOP\_DURATION indicates duration informationAlso revise the discrption of all 1 setting to UNSPECIFIED to align with the submission from Jeongki.TGax editor to make the changes shown in 11-17/0263r2 under all headings that include CID 8394. |
| 5215 | Dorothy Stanley | 197.53 | 27.11.5 | Regarding "The RXVECTOR parameter FORMAT of the soliciting PPDU is not equal to HE\_SU, HE\_MU, or HE\_EXT\_SU", I'm not following the logic. Is it trying to say that don't set to all one's if the soliciting PPDU is equal to HE trigger-based PPDU? Please clarify. | as in comment | Revised –The author refers to the second bullet of the following description*A TXOP responder that transmits an HE trigger-based PPDU shall not set the TXVECTOR parameter TXOP\_DURATION to all 1s if any one of the following condition is met:— The RXVECTOR parameter TXOP\_DURATION of the soliciting PPDU is not set to all 1s— The RXVECTOR parameter FORMAT of the soliciting PPDU is not equal to HE\_SU, HE\_MU, or HE\_EXT\_SU*The meaning of second bullet is not for the case that the PHY format soliciting PPDU is HE trigger-based PPDU because HE trigger-based PPDU can not solicit HE trigger-based PPDU. The intention is for the case that the PHY format of the soliciting PPDU is non-HT, HT, or VHT. In this case, there is no HE preamble to indicate if all 1s shall be used, and to prevent different STAs do different choice for responding HE trigger-based PPDU, we then have this rule.To clarify, we revise the sentence to “The soliciting PPDU is not an HE PPDU.”TGax editor to make the changes shown in 11-17/0263r2 under all headings that include CID 5215. |
| 7142 | kaiying Lv | 197.44 | 27.11.5 | When the MAC Duration of the HE trigger-based PPDU is 0, even if the RXVECTOR parameter TXOP\_DURATION of the soliciting PPDU is set to all 1s, the TXVECTOR parameter TXOP\_DURATION of the HE trigger-based PPDU can be set to 0. | Please Clarify it. | Rejected –We note that if the TXOP Duration field is set to all 1s, then the EIFS may still be invoked if the MAC portion is not decoded and the PHY portion is decoded. If the TXOP Duration is not set to all 1s, ex 0, then the EIFS is not invoked, if the MAC portion is not decoded, and the PHY portion is decoded. For details, see 10.3.2.3.7 EIFS. Hence, there is still a difference between setting TXOP Duration field to all 1s and 0.  |
| 10292 | Yusuke Tanaka | 198.05 | 27.11.5 | The condition which this rule is based on is prohibited by the rule described in P197L40. | Remove this rule. | Rejected – We clarify that P197L40 is the rule for HE SU PPDU, HE extended range PPDU, or HE MU PPDU, and P198L05 is the rule for HE trigger-based PPDU. Hence, the sentence in P198L05 referred by the commenter is not prohibited by the rule described in P197L40. |

**Discussion:** *None.*

**Propose:**

Revised for CID 8394, CID 5215 per discussion and editing instructions in 11-17/0263r2.

***TGax editor: Modify the sentence on page 197 line 36 to line 54 in 27.11.5 as the following:***

A STA that is not a TXOP responder and(#8394) transmits an HE SU PPDU, HE extended range SU PPDU, or HE MU PPDU may indicate no duration information for NAV setting by setting the TXVECTOR parameter TXOP\_DURATION to UNSPECIFIED~~all 1s~~. (#8394)

If a STA transmits an HE SU PPDU, HE extended range PPDU, or HE MU PPDU that carries a PS-Poll
frame, the STA shall set the TXVECTOR parameter TXOP\_DURATION to UNSPECIFIED~~all 1s~~. (#8394)

A TXOP responder that transmits an HE SU PPDU, HE extended range SU PPDU, or(#8394) HE trigger-based PPDU shall set the TXVECTOR parameter TXOP\_DURATION to UNSPECIFIED~~all 1s~~(#8394) if the RXVECTOR parameter TXOP\_DURATION of the soliciting PPDU is set to UNSPECIFIED~~all 1s~~.(#8394)

A TXOP responder that transmits an HE trigger-based PPDU shall not set the TXVECTOR parameter
TXOP\_DURATION to UNSPECIFIED~~all 1s~~(#8394) if any one of the following condition is met:
— The RXVECTOR parameter TXOP\_DURATION of the soliciting PPDU is not set to UNSPECIFIED~~all 1s~~(#8394)
— ~~The RXVECTOR parameter FORMAT of the soliciting PPDU is not equal to HE\_SU, HE\_MU, or
 HE\_EXT\_SU~~The soliciting PPDU is not an HE PPDU.(#5215)