### IEEE P802.11Wireless LANs

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| 11ax D1.3 MAC Comment Resolution for 10.3.2.4 and 27.2.2 Part III |
| Date: 2017-07-12 |
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Abstract

This submission proposes resolutions for comments of TGax Draft 1.3 with the following CIDs:

5384, 8403, 6177, 7160, 9381, 9414

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Editorial revision based on the comment from Mark

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 D1.3 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGax D1.3 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** |
| 5384 | Geonjung Ko | 150.57 | 27.2.2 | When an AP solicits an immediate response from a STA using the UL MU operation, the solicited STA may not respond to the Trigger frame after the CS mechanism. In this case, the STA shall set its NAV. | In case that the STA is solicited an immediate response by the frame but the STA cannot respond to the frame, the STA shall update its NAV. | Revised –The time point for STA to know that the STA can not respond is severl microseconds after the end of the received Trigger frame after ED is done. Usually the NAV setting is already done at the end of the received frame.Propose to always set NAV when receiving a Trigger frame.TGax editor to make the changes shown in 11-17/1077r1 under all headings that include CID 5384. |
| 8403 | Po-Kai Huang | 150.58 | 27.2.2 | The thrid bullet for the setting of Intra-BSS NAV with the duration information may need to be revised. Specficially, it is possible that a STA that is solicited by the Trigger frame does not respond to the Trigger frame. If the Trigger frame solicits a long transmission, then the STA may contend and transmit later and hurt the reception of UL MU transmissoin. | Revise the rule such that a HE STA always set NAV when receives a Trigger frame regardless of being solicited for response or not. | Accepted –TGax editor to make the changes shown in 11-17/1077r1 under all headings that include CID 5384. |
| 6177 | Jin-Sam Kwak | 150.57 | 27.2.2 | Although an AP solicits a STA using a Trigger frame, the STA may not respond to the Trigger frame due to the CS result. Following the current spec, the STA does not update its NAV and this would cause the interference. | We need a rule to make the STA to update its NAV when the STA is solicited an immediate response by the frame but the STA is not able to respond to the frame. | Revised –The time point for STA to know that the STA can not respond is severl microseconds after the end of the received Trigger frame after ED is done. Usually the NAV setting is already done at the end of the received frame.Propose to always set NAV when receiving a Trigger frame.TGax editor to make the changes shown in 11-17/1077r1 under all headings that include CID 5384. |
| 7160 | kaiying Lv | 150.58 | 27.2.2 | When the trigger frame's responder failed to respond due to CS busy, the STA solicited an immediate response should also update NAV in order to avoid contending the medium. | Please clarify it | Revised –The time point for STA to know that the STA can not respond is severl microseconds after the end of the received Trigger frame after ED is done. Usually the NAV setting is already done at the end of the received frame.Propose to always set NAV when receiving a Trigger frame.TGax editor to make the changes shown in 11-17/1077r1 under all headings that include CID 5384. |
| 9381 | Weimin Xing | 150.58 | 27.2.2 | Based on current text, if a STA is solicited an immediate respsonse by the PPDU carrying the frame, the STA shall not update the intra-BSS NAV by the received frame. However, when the STA can not respond the frame due to CS busy, How to update the NAV? | Please Clarify. | Revised –The time point for STA to know that the STA can not respond is severl microseconds after the end of the received Trigger frame after ED is done. Usually the NAV setting is already done at the end of the received frame.Propose to always set NAV when receiving a Trigger frame.TGax editor to make the changes shown in 11-17/1077r1 under all headings that include CID 5384. |
| 9414 | Woojin Ahn | 150.57 | 27.2.2 | If a STA is solicited by a Trigger Frame and the scheduled RU is considered busy by the UL MU CS mechanism, then the STA shall not transmit TB PPDU. Therefore the STA shall update its NAV as defined in the Trigger Frame. | As per comment | Revised –The time point for STA to know that the STA can not respond is severl microseconds after the end of the received Trigger frame after ED is done. Usually the NAV setting is already done at the end of the received frame.Propose to always set NAV when receiving a Trigger frame.TGax editor to make the changes shown in 11-17/1077r1 under all headings that include CID 5384. |

**Discussion:**

**Propose:**

Revised for CID 5384 per discussion and editing instructions in 11-17/1077r1

***TGax editor: Modify 27.2.3 as the following:***

**27.2.3 Updating two NAVs**

…(existing texts)….

A STA, that is not a TXOP holder, shall update the intra-BSS NAV with the duration information indicated
by the received frame in a PSDU if and only if all the following conditions are met:

* The frame is identified as intra-BSS according to the rule described in 27.2.1 (Intra-BSS and interBSS frame determination(#8111)).
* The indicated duration is greater than the current intra-BSS NAV value.
* The RA of the received frame is not the STA's MAC address or the PPDU carrying the frame
does not solicit an immediate response from the STA or the received frame is a Trigger frame (#5384).(#7568)