IEEE P802.11
Wireless LANs

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| Comment resolution in part of HE Capabilities IE (9.4.2.218) |
| Date: 2017-02-22 |
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Abstract

This submission proposes resolutions for multiple comments related to TGax D1.0 with the following CIDs:

* 4564, 4571, 4614, 7369, 8083, 8511, 8512, 9666, 9667 (9 CIDs)

Revisions:

* Rev 0: Initial version of the document.

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

***Editing instructions formatted like this are intended to be copied into the TGax 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.***

# PARS I

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| **CID** | **Commenter** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 4564 | Albert Petrick | 77.27 | Add clarity and call out bit position in Table 9-262z for subfield "TWT Requester Support" corresponding to those bit positions in Figure 9-589ck. | Add bit "B1:" in Definition column before the word "Indicates"Add bit "B1:" in Encoding column before the word "Set" | Rejected –The bit locations are already provided in the Figure 9-589ck (HE MAC Capabilities Information field format). Adding the bit to the text is redundant.  |
| 4571 | Albert Petrick | 77.33 | Add clarity and call out bit position in Table 9-262z for subfield "TWT Responder Support" corresponding to those bit positions in Figure 9-589ck. | Add bit "B2:" in Definition column before the word "Indicates"Add bit "B2:" in Encoding column before the word "Set" | Rejected –The bit locations are already provided in the Figure 9-589ck (HE MAC Capabilities Information field format). Adding the bit to the text is redundant. |
| 4614 | Albert Petrick | 78.58 | Add clarity and call out bit position in Table 9-262z for subfield "Broadcast TWT Support" corresponding to those bit positions in Figure 9-589ck. | Add bit "B20:" in Definition column before the word "Indicates"Add bits "B20:" in Encoding column before the word "Set" | Rejected –The bit locations are already provided in the Figure 9-589ck (HE MAC Capabilities Information field format). Adding the bit to the text is redundant. |
| 7369 | Kwok Shum Au | 78.58 | The name of the subfield is "Broadcast TWT Support", rather than "Broadcast TWT Supported", according to Figure 9-589ck. | Replace "Broadcast TWT Supported" with "Broadcast TWT Support". | Accepted |
| 8083 | Matthew Fischer | 76.31 | TWT support bits exist in both HE CAP IE and Ext CAP IE - the bits only need to appear in one location | Eliminate the TWT support bits from the HE CAP IE while keeping those in the EXT CAP IE. Adjust references appropriately. | Rejected –The TWT support bits in the Ext Capabilities IE indicate support of the baseline TWT operation (referred to subclause 10.43). The TWT supports in the HE Capabilities IE indicate support for the enhanced version of TWT introcuded in HE (referred to in subclause 27.7). Having different bits differentiate the capabilities of the STA. |
| 8511 | Robert Stacey | 77.29 | TWT operation as defined in 27.7 is the appropriate flavor of TWT for an HE STA. TWT operation in 10.43 is for the baseline with the HE extensions. | Change to "as described in 27.7" (2 times) | Accepted |
| 8512 | Robert Stacey | 77.34 | TWT operation as defined in 27.7 is the appropriate flavor of TWT for an HE STA. TWT operation in 10.43 is for the baseline with the HE extensions. | Change to "as described in 27.7" (2 times) | Accepted |
| 9666 | Yongho Seok | 77.27 | The TWT Requester Support field is not defined in the Extended Capabilities element.Remove either one.For a general purpose, please keep The TWT Requester Support field in the Extended Capabilities element. | As per comment. | Rejected –The TWT support bits in the Ext Capabilities IE indicate support of the baseline TWT operation (referred to subclause 10.43). The TWT supports in the HE Capabilities IE indicate support for the enhanced version of TWT introcuded in HE (referred to in subclause 27.7). Having different bits differentiate the capabilities of the STA. Also the TWT Requester Support is already defined in the Extended Capabilities element (see Table 9-135(Extended Capabilities element)). |
| 9667 | Yongho Seok | 77.33 | The TWT Responder Support field is not defined in the Extended Capabilities element.Remove either one.For a general purpose, please keep The TWT Responder Support field in the Extended Capabilities element. | As per comment. | Rejected –The TWT support bits in the Ext Capabilities IE indicate support of the baseline TWT operation (referred to subclause 10.43). The TWT supports in the HE Capabilities IE indicate support for the enhanced version of TWT introcuded in HE (referred to in subclause 27.7). Having different bits differentiate the capabilities of the STA. Also the TWT Responder Support is already defined in the Extended Capabilities element (see Table 9-135(Extended Capabilities element)). |

## Discussion: *None.*

* HE Capabilities element
* HE MAC Capabilities Information field

TGax Editor: *Change the table below of this subclause as follows (#CID 8511, 8512, 7369):*

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| * Subfields of the HE MAC Capabilities Information field
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| Subfield | Definition | Encoding |
| +HTC-HE Support | Indicates if the STA supports the reception of an HE variant HT Control field carried in a QoS Data, QoS Null, or Management frame. | Set to 1 if the STA supports reception of an HE variant HT Control field.Set to 0 otherwise. |
| TWT Requester Support | Indicates support by an HE STA for the role of TWT requesting STA as described in 27.7 (TWToperation).*(#8511)* | Set to 1 if dot11TWTOptionActivated is true and the STA supports TWT requester STA functionality (see 27.7 (TWT operation)).*(#8511)* Set to 0 otherwise. |
| TWT Responder Support | Indicates support by an HE STA for the role of TWT responder STA as described in 27.7 (TWT operation).*(#8512)* | Set to 1 if dot11TWTOptionActivated is true and the STA supports TWT responder STA functionality (see 27.7 (TWT operation)).*(#8512)* Set to 0 otherwise. |
| … |  |  |
| Broadcast TWT Support*(#7369)* | Indicates support by an HE non-AP STA for the role of TWT scheduled STA and by an AP for the role of TWT scheduling STA as described in 27.7.3 (Broadcast TWT operation).  | Set to 1 when the STA supports broadcast TWT functionality.Set to 0 otherwise. |
| … |  |  |