IEEE P802.11  
Wireless LANs

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| Comment resolutions for 9.3.1.20 Part 2 | | | | |
| Date: 2018-03-01 | | | | |
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Abstract

This submission proposes resolutions for multiple comments related to TGax D2.0 with the following CIDs:

* 11950, 11951, 11952, 11953, 12767 (5 CIDs)

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Added some clarifications (highlighted in green). The group also suggested some clarifications for NDPA in HT/VHT presence, and signalling TA for 20 MHz NDPA requirement (changes in green as well).

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.***

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| **CID** | **Commenter** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 11950 | James Lepp | 84.07 | Change the acronym "BW" to the word "bandwidth". This is not a field name so the acronym just makes this sentence less readable. | Change the acronym "BW" to the word "bandwidth" | Revised—  Agree in principle with the comment. Proposed resolution defines the bandwidth (BW) relating it to the TXVECTOR parameters that carry it depending on the PPDU format that is containing the HE NDP Announcement frame. In addition we also editorially re-arrange the setting description so that it is clear what are the acceptable values of the RU Start Index and RU End Index.  TGax editor to make the changes shown in 11-18/0378r1 under all headings that include CID 11950. |
| 11951 | James Lepp | 84.12 | Change the acronym "BW" to the word "bandwidth". This is not a field name so the acronym just makes this sentence less readable. | Change the acronym "BW" to the word "bandwidth" | Revised—  Agree in principle with the comment. Proposed resolution defines the bandwidth (BW) relating it to the TXVECTOR parameters that carry it depending on the PPDU format that is containing the HE NDP Announcement frame. In addition we also editorially re-arrange the setting description so that it is clear what are the acceptable values of the RU Start Index and RU End Index.  TGax editor to make the changes shown in 11-18/0378r1 under all headings that include CID 11951. |
| 11952 | James Lepp | 84.16 | Change the acronym "BW" to the word "bandwidth". This is not a field name so the acronym just makes this sentence less readable. | Change the acronym "BW" to the word "bandwidth" | Revised—  Agree in principle with the comment. Proposed resolution defines the bandwidth (BW) relating it to the TXVECTOR parameters that carry it depending on the PPDU format that is containing the HE NDP Announcement frame. In addition we also editorially re-arrange the setting description so that it is clear what are the acceptable values of the RU Start Index and RU End Index.  TGax editor to make the changes shown in 11-18/0378r1 under all headings that include CID 11952. |
| 11953 | James Lepp | 84.21 | Change the acronym "BW" to the word "bandwidth". This is not a field name so the acronym just makes this sentence less readable. | Change the acronym "BW" to the word "bandwidth" | Revised—  Agree in principle with the comment. Proposed resolution defines the bandwidth (BW) relating it to the TXVECTOR parameters that carry it depending on the PPDU format that is containing the HE NDP Announcement frame. In addition we also editorially re-arrange the setting description so that it is clear what are the acceptable values of the RU Start Index and RU End Index.  TGax editor to make the changes shown in 11-18/0378r1 under all headings that include CID 11953. |
| 12767 | Mark RISON |  | The base of the RU Start Index is not specified (FORTRAN v. C conventions) | Specify that the lowest RU index is 0 | Revised –  Agree with the comment (there was no Page/Line or subclause number but with some deduction seems this is the right subclause). Proposed resolution is to clarify the lowest and higherst values of RU Start index and RU End Index in the itemized list.  TGax editor to make the changes shown in 11-18/0378r1 under all headings that include CID 12767. |

**Discussion: *None.***

* VHT/HE NDP Announcement frame format

The TA field is set to the address of the STA transmitting the VHT/HE NDP Announcement frame or the bandwidth signaling TA of the STA transmitting the VHT/HE NDP Announcement frame. In a VHT/HE NDP Announcement frame transmitted by a VHT or HE STA in a non-HT or non-HT duplicate format and where the scrambling sequence carries the TXVECTOR parameter CH\_BANDWIDTH\_IN\_NON\_HT, the TA field is set to a bandwidth signaling TA.

**TGax Editor: *Change the paragraphs below of this subclause as follows (#CID 11950, 11951, 11952, 11953, 12767):***

The RU Start Index subfield of the Partial BW subfield indicates the first 26-tone RU for which the HE beamformer is requesting feedback. The RU End Index subfield of the Partial BW subfield indicates the last 26-tone RU for which the HE beamformer is requesting feedback. The value of the RU Start Index subfield is less than or equal to the value of the RU End Index subfield.*(#12767)* The RU Start Index subfield and RU End Index subfield depends on the bandwidth of the HE NDP Announcement frame, which is indicated in the TXVECTOR parameter CH\_BANDWIDTH when the frame is carried in an HE/VHT/HT PPDU or in the TXVECTOR parameter CH\_BANDWIDTH\_IN\_NON\_HT when the frame is carried in a non-HT duplicate PPDU, or 20 MHz when the frame is carried in non-HT PPDU, and each is selected from:

* Values 0 to 8 when the bandwidth of the HE NDP Announcement frame is 20 MHz, where 0 indicates 26-tone RU 1 and 8 indicates 26-tone RU 9. *(#11950)* Values 9–127 are reserved. See Table 28-6 (Data and pilot subcarrier indices for RUs in a 20 MHz HE PPDU).
* Values 0 to 17 when the bandwidth of the HE NDP Announcement frame is 40 MHz, where 0 indicates 26-tone RU 1 and 17 indicates 26-tone RU 18. *(#11951)* Values 18–127 are reserved. See Table 28-7 (Data and pilot subcarrier indices for RUs in a 40 MHz HE PPDU).
* Values 0 to 36 when the bandwidth of the HE NDP Announcement frame is 80 MHz, where 0 indicates 26-tone RU 1 and 36 indicates 26-tone RU 37. *(#11952)* Values 37–127 are reserved. See Table 28-8 (Data and pilot subcarrier indices for RUs in an 80 MHz HE PPDU).
* Values 0 to 73 when the bandwidth of the HE NDP Announcement frame is 160 MHz, where 0 indicates 26-tone RU 1 and 73 indicates 26-tone RU 74. In the 80+80 MHz case, value 0 indicates the 26-tone RU 1 in the lower 80 MHz frequency segment and 36 indicates the 26-tone RU 37 in the lower 80 MHz frequency segment and 37 indicates the 26-tone RU 1 in the upper 80 MHz frequency segment and 73 indicates the 26-tone RU 74 in the upper 80 MHz frequency segment. *(#11953)*Values 74–127 are reserved. For 80+80 MHz, feedback is not requested for the gap between the 80 MHz segments. See Table 28-8 (Data and pilot subcarrier indices for RUs in an 80 MHz HE PPDU).*(#12767)*