IEEE P802.11
Wireless LANs

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| LB230 CR UPLINK\_FLAG  |
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Abstract

This submission proposes resolutions of comments received from TGax LB230.

(The proposed change is based on TGax Draft 2.2.)

* CIDs: 13296, 11042, 13795, 12799, 12048 (5 CIDs)

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.***

| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| --- | --- | --- | --- | --- | --- |
| 13296 | 304.43 | 27.11.2 | The TXVECTOR parameter UPLINK\_FLAG doesn't carry anything -- it's a parameter. | Remove the first sentence and make each bullet a stand-alone statement | Revised- Agree in principle. TGax editor makes changes as shown in the as specified in 11-18/0629r0. |
| 11042 | 304.48 | 27.11.2 | Replace 'all 1s' with UNSPECIFIED | As in comment | Revised- Agree in principle. TGax editor makes changes as shown in the as specified in 11-18/0629r0. |
| 13795 | 304.48 | 27.11.2 | Replace all 1s with UNSPECIFIED | As in comment | Revised- Agree in principle. TGax editor makes changes as shown in the as specified in 11-18/0629r0. |
| 12799 | 304.50 | 27.11.2 | "A STA transmitting an HE PPDU to a DLS or TDLS peer STA, IBSS member STA, mesh STA, oranother non-AP STA shall set the TXVECTOR parameter UPLINK\_FLAG to 0" is going to lead to spec rot | Change the cited text to "Otherwise, a STA shall set the TXVECTOR parameter UPLINK\_FLAG to 0" | Accepted |
| 12048 | 304.51 | 27.11.2 | "A STA transmitting an HE PPDU to a DLS or TDLS peer STA, IBSS member STA, mesh STA, oranother non-AP STA shall set the TXVECTOR parameter UPLINK\_FLAG to 0"This text should be modified considering the following text described in the 27.15.4 PPDU format selection."A non-AP HE STA shall not transmit an HE MU PPDU to a peer STA unless it has received from the peerSTA an HE Capabilities element with the Rx HE MU PPDU From Non-AP STA subfield in the HE PHYCapabilities Information field equal to 1.NOTE--A non-AP STA transmitting an HE MU PPDU sets the TXVECTOR parameter UPLINK\_FLAG to 1 (see27.11.2 (UPLINK\_FLAG)). The UL MU PPDU format enables the non-AP STA to include its AID (i.e., transmitter'sAID) in the PHY header of the PPDU and its use is out of scope of the standard." | Replace it with the following text."A STA transmitting an HE PPDU to a DLS or TDLS peer STA, IBSS member STA, mesh STA, or another non-AP STA shall set the TXVECTOR parameter UPLINK\_ FLAG to 0, except when the HE PPDU is the HE MU PPDU in which case the STA shall set the TXVECTOR parameter UPLINK\_FLAG to 1"And also update the related texts in 27.14.1. | Revised- The cited note in the 27.15.4 is for the uplink HE MU PPDU. TGax editor makes changes as shown in the as specified in 11-18/0629r0. |

***TGax editor: change 27.11.2 as the following:***

27.11.2 UPLINK\_FLAG

The ~~Uplink Flag is carried in the~~ (#13296) TXVECTOR parameter UPLINK\_FLAG of a~~n~~ transmitted HE SU PPDU, HE ER SU PPDU, and HE MU PPDU ~~and~~ is set as follows:

* A STA transmitting an HE PPDU that is addressed to an AP shall set the TXVECTOR parameter UPLINK\_FLAG to 1, except when the HE PPDU is an HE ER SU PPDU with ~~the TXOP Duration field~~ RXVECTOR parameter TXOP\_DURATION set to ~~all 1s~~ UNSPECIFIED (#11042, 13795) and contains an RTS or CTS frame in which case the STA may set the TXVECTOR parameter UPLINK\_FLAG to 0.
* ~~A STA transmitting an HE PPDU to a DLS or TDLS peer STA, IBSS STA(#12797), mesh STA, or another non-AP STA shall set the TXVECTOR parameter UPLINK\_FLAG to 0.~~ Otherwise, the STA shall set the TXVECTOR parameter UPLINK\_FLAG to 0. (#12799)

~~NOTE—A DLS or TDLS peer STA, or IBSS STA(#12797) can identify that the HE PPDU is sent in a direct path from the To DS and From DS fields of the MAC header of its MPDU(s).~~ (#12799)

The TXVECTOR parameter UPLINK\_FLAG is not present for an HE TB PPDU.

***TGax editor: change 27.11.2 as the following (#12048):***

27.15.2 PPDU format selection

A non-AP HE STA shall not transmit an UL HE MU PPDU to an ~~peer~~ HE AP STA unless it has received from the ~~peer~~ HE AP STA an HE Capabilities element with the Rx UL HE MU PPDU ~~From Non-AP STA~~ subfield in the HE PHY Capabilities Information field equal to 1.

NOTE—A non-AP STA transmitting an UL HE MU PPDU sets the TXVECTOR parameter UPLINK\_FLAG to 1 (see 27.11.2 (UPLINK\_FLAG)). The UL MU PPDU format enables the non-AP STA to include its AID (i.e., transmitter's AID) in the PHY header of the PPDU and its use is out of scope of the standard.

***TGax editor: replace “Rx HE MU PPDU From Non-AP STA” with “Rx UL HE MU PPDU” in Figure 9-589cl (HE PHY Capabilities Information field format) (#12048).***

***TGax editor: change Table 9-262aa (Subfields of the HE PHY Capabilities Information field) as the following (#12048):***

|  |  |  |
| --- | --- | --- |
| Rx UL HE MU PPDU ~~From Non-AP STA~~ | Indicates support for the reception on an RU in an UL HE MU PPDU from a non-AP STA where one of the following apply:* The RU spans the entire PPDU bandwidth
* The RU does not span the entire PPDU bandwidth (106-tone RU within 20 MHz bandwidth)
 | Set to 0 if not supported. Set to 1 if supported. |