IEEE P802.11  
Wireless LANs

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| OMI Comment Resolutions | | | | |
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Abstract

This submission solves 5 CIDs on OMI. The solved CIDs are: 20716, 20788, 21208, 21478, and 21618.

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| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 20716 | 391.44 | 26.9.3 | Re 15990: the proposed change was indeed wrong, but the comment was valid and not addressed. The point is that disabling UL MU data hinders trigger-enabled TWT, even for the "just one STA" case. Also "data transmission" is not clear as to whether QoS Null frames and Ps-Poll frames are included | After the para at the referenced location add a "NOTE---QoS Null frame transmission is not allowed in this case, but PS-Poll frame transmission is. Operation of trigger-enabled TWT is therefore only possible using PS-Poll frames, not U-APSD triggers.". At 77.39 change "UL MU Data transmission" to "UL MU Data frame transmission". At 77.44 change "UL MU Control response transmission" to "UL MU control response transmission". At 391.44 change "UL MU data transmission" to "UL MU Data frame transmission" | Revised.  The proposed Note covers only a single case of the Trigger-enabled TWT:   * A non-AP STA may transmit SU data or SU QoS-Null frame at any time * In Trigger-enabled unannounced TWT an AP may transmit to a STA without receiving any frame from STA   The proposed Note does not address these other cases, so it is better not to have the note. Some editorial changes as proposed by the comment are done. TGax Editor, please make the changes as shown in document 11-19-696r1 and marked for CID 20716. |
| 20788 | 390.42 | 26.9.2 | Re CID 16362: the resolution fails to provide a justification of the value of allowing an AP to lie (also can a non-AP STA lie?) | Change "should" to "shall" in "An OMI initiator that is an HE AP should be capable of receiving within an operating channel width and with NSS that are up to the values of the most recently transmitted Channel Width subfield and Rx NSS sub- field that the OMI initiator has successfully indicated in the OM Control subfield or in the Operating Mode field sent to any associated STA." | Accepted.  If the AP is the initiator the OMI signalling, then the AP shall be able to operate as it indicates in its OMI signalling. |
| 21208 | 390.18 | 26.9.1 | This Note is encouraging bad behavior. | Since the next section indicates when the change should occur, and we have added a Channel Switch Timing Element, the preferred behavior is to take advantage of this. Let's specify when it happens in the next section, and require the OMI responder to not schedule traffic for the duration indicated in the Channel Switch Timing Element. | Rejected.  The OMI mode may change from lower BW to larger BW and the non-AP STA may have done the transition prior it transmits the OMI to the AP. In this case the proposed inactivity time in OMI transition blocks frames transmissions to the STA. The current wording allows the non-AP STA to control whether it is available to receive frames or not. The Note is not encouraging bad behaviour, it suggests transition to power save mode only if non-AP STA will not be available and if the frame loss is problem for the STA. |
| 21478 | 77.18 | 9.2.4.6a.2 | The sentence "The UL MU Disable subfield is combined with the UL MU Data Disable subfield and the recipient's setting of the OM Control UL MU Data Disable RX Support subfield in the HE MAC capabilities to determine the allowed UL MU operations and frame types that can be transmitted as a response to a Basic Trigger frame or a frame carrying a TRS Control field, as indicated in Table 9-24a (UL MU Disable and UL MU Data Disable subfields encoding)." is garbled and difficult to understand. Please rephrase. | please rewrite the sentence to make it clear. | Revised.  Agree in principle with the comment. TGax Editor, please make the changes as shown in document 11-19-696r1 and marked for CID 21478. |
| 21618 | 76.53 | 9.2.4.6a.2 | UL MU Data disable cannot guarantee a short TB PPDU duration which is needed for some coex scenario | Define UL MU data disable to make sure it will generate short TB PPDU which can be garanteed. | Revised. Agree in principle. A STA could signal to AP its desire to use shorter TB PPDUs by using TSPEC. TGax Editor, please make the changes as shown in document 11-19-696r1 and marked for CID 21618. |

**9.2.4.6a Control subfield variants of an A-Control subfield**

**9.2.4.6a.2 OM Control**

*TGax Editor: Please change as shown below.*

The UL MU Disable subfield, ~~is combined with the~~ UL MU Data Disable subfield and the recipient's setting of the OM Control UL MU Data Disable RX Support subfield in the HE MAC capabilities ~~to~~ determine the allowed UL MU [21478] operations and frame types that can be transmitted as a response to a Basic Trigger frame or a frame carrying a TRS Control field, as indicated in Table 9-24a (UL MU Disable and UL MU Data Disable subfields encoding). If the OM Control field is transmitted by an HE AP, then the UL MU Disable and UL MU Data Disable subfields are reserved.

**9.2.4.6a.2 OM Control**

*TGax Editor: Please change in Table 9-24a Row 4 column 4 as shown below.*

Trigger based UL MU ~~D~~data [20716] transmission triggered by a Basic Trigger frame is suspended.

Trigger based UL MU ~~C~~control [20716] response transmission triggered by a Basic Trigger…

**9.4.2.29 TSPEC element**

*TGax Editor: Please change as shown below.*

The Medium Time field in ADDTS Request frame transmitted by the HE STA to the associated HE AP indicates the maximum UL MU duration that the AP is allowed to allocate to the requesting STA, in units of 32 µs. Value 0 indicates that the UL MU duration is not limited. Values larger than 164 are reserved. [21618]

The field is reserved in the ADDTS Request frame transmitted by a non-HE STA.

The Medium Time field ~~is an unsigned integer and contains the amount of time admitted to access the medium, in units of 32 μs/s. This field is reserved in the ADDTS Request frame and is~~ set by the HC in the ADDTS Response frame contains the amount of time the receiving STA is admitted to access the medium, in units of 32 μs/s. The derivation of this field is described in K.2.2 (Deriving medium time). This field is not used for controlled channel access. [21618]

**26.9 Operating mode indication**

**26.9.2 Receive operating mode (ROM) indication**

*TGax Editor: Please change as shown below.*

An OMI initiator that is an HE AP ~~should~~ shall [20788] be capable of receiving within an operating channel width and with *NSS* that are up to the values of the most recently transmitted Channel Width subfield and Rx NSS subfield that the OMI initiator has successfully indicated in the OM Control subfield or in the Operating Mode field sent to any associated STA.