IEEE P802.11
Wireless LANs

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| Comment resolutions for TOMI |
| Date: 2020-10-21 |
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Abstract

This submission proposes resolutions to the CIDs:  25071, 25095, and 25096.

R1) Comments from 802.11ax telco 10/15 are incorporated.

R2) Offline comments from Osama and Menzo Weinting are included.

* URL to comment resolutions is added
* The normative text is updated to all CIDs. Modified text shown is highlighted

R3) Editorial changes: NSTS written correctly.

R4) Comment revision versions corrected.

## CID 25071

### Comment

Tx NSTS only applies to non-AP STAs

### Proposed Change

At 93.1 change "that the STA supports" to "that a non-AP STA supports" and at the end of the para add "The Tx NSTS subfield is reserved for an AP.". At 440.48 change "Tx NSTS" to "Tx NSTS (non-AP STA only)".

### Discussion:

It is true that TX NSTS is the maximum NSTS that AP may trigger a STA. The AP needs to know the value of the field in order to allocate the correct number of of NSTS to a STA in a Tigger frame.

The OM Control field definition can be improved for Tx NSTS subfield. On clause 26.9.3 we have in page 440 line 14 the following NOTE that makes it clear that AP does not transmit TOM fields:

NOTE—TOM indication does not relate to transmissions in PPDUs other than HE TB PPDUs. An AP does not perform TOM indication as an OMI initiator.

### Proposed Resolution

REVISED. Accept in principle with the comment.

Please adopt the changes shown in the submission <https://mentor.ieee.org/802.11/dcn/20/11-20-1658-04-00ax-comment-resolutions-for-tomi.docx> 11-20-1658r4 identified for the CID 25071.

## CID 25095

### Comment

"The UL MU Disable subfield to 1 to indicate suspension to response to a triggering frame" -- weird grammar, not clear what it's trying to say

### Proposed Change

Change to "The UL MU Disable subfield to 1, to suspend responding to triggering frames"

### Proposed Resolution

REVISED.

Please adopt the changes shown in the submission <https://mentor.ieee.org/802.11/dcn/20/11-20-1658-04-00ax-comment-resolutions-for-tomi.docx> 11-20-1658r4 identified for the CID 25095.

## CID 25096

### Comment

" "The UL MU Disable subfield to 1 to indicate suspension to response to a triggering frame" -- not clear whether this applies to MU-RTS and NFRP Trigger frames

### Proposed Change

Add "NOTE---Responses to MU-RTS Trigger frames and NFRP Trigger frames are also suspended."

### Proposed Resolution

REVISED.

Please adopt the changes shown in the submission <https://mentor.ieee.org/802.11/dcn/20/11-20-1658-04-00ax-comment-resolutions-for-tomi.docx> 11-20-1658r4 identified for the CID 25096.

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## Updated Normative Text

**9.2.4.6a.2 OM Control**

**Instructions to the Editor, please change the third last paragraph as shown:**

~~The~~ A non-AP HE STA sets the Tx NSTS subfield to *NSTS* - 1, where *NSTS* is ~~indicates~~ the maximum number of space-time streams~~,~~ *~~NSTS~~*~~, that~~ the non-AP STA supports in transmission. ~~and is set to~~ *~~NSTS~~* ~~– 1~~. If the OM Control field is transmitted by an HE AP, then the Tx NSTS subfield is reserved. [25071]

A non-AP HE STA sets the ER SU Disable subfield to 1 to indicate that 242-tone HE ER SU PPDU recep- tion is disabled and to 0 to indicate that 242-tone HE ER SU PPDU reception is enabled. If the OM Control field is transmitted by an HE AP, then the ER SU Disable subfield is reserved.

**26.9.3 Transmit operating mode (TOM) indication**

**Instructions to the Editor, please change the second paragraph as shown:**

An OMI initiator that is a non-AP STA may indicate changes in its transmit parameters by sending a frame that contains the OM Control subfield to the OMI responder. The OMI initiator shall set:

– The UL MU Disable subfield to 1, to indicate that responding to a triggering frame is suspended ~~indicate suspension to response to a~~ ~~triggering frame~~ (see 26.5.2 (UL MU operation). [25095]

• An AP that is an OMI initiator shall set the UL MU Disable subfield to 0.

NOTE---Responding to all Trigger frame variants, including MU-RTS Trigger frames and NFRP Trigger frames, is suspended. [25096]