IEEE P802.11
Wireless LANs

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| CR for CID 14330 |
| Date: 2018-05-08 |
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Abstract

This submission proposes resolutions for multiple comments related to TGax D2.2 with the following CIDs:

* 14330

Revisions:

* Rev 0: Initial version.

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** |
| 14330 | Zhou Lan | 242.17 | 80MHz TX/RX is mandatory for 11ax AP and STA while 160 MHz TX/RX is optional. The spec should allow 80MHz only capable STA to be schedule on secondary channel to TX/RX with other 80MHz only capable STA on the primary channel. | as in the comment | Accepted-Agree in principleTGax editor makes changes as shown in the as specified in 11-18/xxxrx. |

## Discussion:

none

***TGax editor: change the following subclause as follows:***

**27.7.7 HE Subchannel Selective Transmission operation**

A TWT requesting STA and a TWT responding STA may set up a TWT for enabling frame exchanges on a non-primary ~~20 MHz~~ subchannel. In which case, the TWT requesting STA and the TWT responding STA follow the rules described in this subclause.

When an HE STA implements the HE Subchannel Selective Transmission operation described in this subclause, it shall set dot11HESubchannelSelectiveTransmissionImplemented to true.

An HE AP STA whose dot11HESubchannelSelectiveTransmissionImplemented is true shall set the HE Subchannel Selective Transmission Support field in the HE Capabilities element it transmits to 1. A ~~20MHz-only~~ non-AP HE STA whose dot11HESubchannelSelectiveTransmissionImplemented is true shall set the HE Subchannel Selective Transmission Support field in the HE Capabilities element it transmits to 1. Otherwise, a non-AP HE STA shall set the HE Subchannel Selective Transmission Support field in the HE Capabilities element it transmits to 0.

A TWT requesting STA with dot11HESubchannelSelectiveTransmissionImplemented equal to true may set one bit in the TWT Channel field of the TWT request frame to 1 to request a secondary channel that is permitted for the RU Allocation, when a TWT responding STA has set the HE Subchannel Selective Transmission Support field to 1 in the HE Capabilities element it transmits. The secondary channel requested in the TWT request frame shall not be outside of the BSS bandwidth.

After receiving the TWT request frame of which the TWT Channel field has a non-zero bit value, a TWT responding STA with dot11HESubchannelSelectiveTransmissionImplemented equal to true may set one bit in the TWT Channel field of the TWT response frame to 1 to indicate a secondary channel that is permitted for the RU Allocation. The secondary channel indicated in the TWT response frame shall not be outside of the BSS bandwidth.

During the negotiated trigger-enabled TWT SPs, an HE AP that is under the TWT agreement shall allocate an RU within a secondary channel specified in the TWT Channel field of the TWT response frame and follow the RU restriction rules defined in 28.3.3.6 (RU restrictions for 20 MHz operation) if the TWT requesting STA is a 20 MHz operating non-AP HE STA, when allocating an RU in an HE MU PPDU or HE TB PPDU to a non-AP STA that is under the TWT agreement.

During the negotiated trigger-enabled TWT SPs, the non-AP STA that is under the TWT agreement shall move to a secondary channel specified in the TWT Channel field of the TWT response frame. The non-AP STA shall not access the medium on the secondary channel using a DCF and EDCAF. After moving into a new operation channel, the non-AP STA in order to transmit shall perform CCA until a frame is detected by which it can set its NAV, or until a period of time equal to the NAVSyncDelay has transpired, whichever is earlier. A STA that receives a PPDU on the secondary channel shall update its NAV according to 27.2.4 (Updating two NAVs).

The negotiated trigger-enabled TWT SPs shall not overlapp with the TBTTs at which the TWT responding STA schedules for transmission DTIM Beacon frames. The TWT responding STA shall ensure that all negotiated trigger-enabled TWT SPs that are overlapping in time use the same secondary channel.

An HE STA whose dot11HESubchannelSelectiveTransmissionImplemented is true may include a Channel Switch Timing element in (Re-)Association Request frames to indicate its channel switch time between the primary and secondary channel. The channel switch time informs the AP of the duration of time that the non-AP STA might not be available to receive frames before the TWT starting time and after the end of the trigger-enabled TWT SP.

NOTE- An HE STA in the PS mode is not required to move to a primary channel after the end of the trigger-enabled TWT SP.