IEEE P802.11  
Wireless LANs

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| CRs for 20 MHz-only STA – Part 2 | | | | |
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Abstract

* The submission provides resolution to comment related to a 20 MHz-only non-AP HE STA
* This document contains comment resolution for 4 CIDs:
  + CID 10377, 4974, 10380, 10381

Rev. 0 initial version of the document

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.***

* Technical comments for 28.3.3.5 and 28.3.3.6 of P802.11ax D1.0

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| **CID** | **Page** | **Clause Number** | **Comment** | **Proposed Change** | **Resolution** |
| 10377 | 237.19 | 28.3.3.5 | "or it reduces operating channel width to" : poorly constructed sentence | replace with "or it reduces its operating channel bandwidth to" | **Revised**  Agree in principal to polish the sentence, and the corresponding part has been updated in P802.11ax D1.2 as “or because it reduces its operating channel width to 20 MHz using OMI”. Therefore, no further change is required. |
| 4974 | 237.31 | 28.3.3.5 | 20 MHz STAs as defined here are catstrophically inefficient (limited RU usage, unbalanced user density on P20, all leading to inefficient scheduling choices for AP) and therefore are out of scope of the 11ax PAR | Signifincat improvements by a) AP allocates a 20M to a 20M only STA, and/or b) a 20M STA has wide enough RX BW (e.g. 40M) that it can receive any RU within 20M, and/or c) AP can prohibit a STA from operating in 20M only mode and/or d) change the RU plan so there is always a single 26RU that spans the 20M boundaries, or add such a plan. Basically strike out P237 L30-52 and replace with something permitted by the PAR. Or move this to a new amendment with a PAR that permits such inefficient operation | **Rejected**  If it is considered to avoid the current RU restriction, as commentor described, the significant specification change is required by re-designing the whole tone-mapping and rules. In this moment, it is not recommended to throw away the existing RU planning and re-design the tone mapping from the beginning.  In addition, the current RU restriction is only applied to a 20MHz-only non-AP STA so that this restricted RU can be assigned to a non-AP STA with 80 MHz channel width capable. Therefore, AP still has an option to efficiently utilize the whole RU resources with proper scheduling.  Nevertheless, it is also welcome for the commenter to provide the contribution which can improve the RU usage and AP scheduling if there is any. |
| 10380 | 237.57 | 28.3.3.5 | "It is optional whether all 242-tone RUs of 20 MHz operating STAs to be supported in 40/80/160/80+80 MHz DL-OFDMA." missing word "are" | It is optional whether all 242-tone RUs of 20 MHz operating STAs are to be supported in 40/80/160/80+80 MHz DL-OFDMA transmission. | **Rejected**  It does not look making a big difference with the proposed text and the current text in P802.11ax D1.2 clearly provides the optional capability. Therefore, no further change is required. |
| 10381 | 238.01 | 28.3.3.6 | Section "28.3.3.6 20 MHz only HE STAs" should be placed before "Section 28.3.3.5". | switch sections | **Revised**  Agree in principal, and the proposed section change has been already implemented in P802.11ax D1.2. Therefore, no further change is required. |