IEEE P802.11
Wireless LANs

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|  CC36 Resolution for CIDs in Clause 35.7.4 (Quieting STAs during Restricted TWT Service Period) |
| Date: October 19, 2021 |
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 Abstract

This submission proposes resolutions for following 9 CIDs received for TGbe CC36:

7470, 6337, 6338, 4161, 4435, 6745, 4089, 4490, 4784

**Revisions:**

* Rev 0: Initial version of the document.
* Rev 1: Revised based on offline feedback.

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 TGbe Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbe Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGbe Editor: Editing instructions preceded by “TGbe Editor” are instructions to the TGbe editor to modify existing material in the TGbe draft. As a result of adopting the changes, the TGbe editor will execute the instructions rather than copy them to the TGbe Draft.***

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| **CID** | **Commenter** | **Clause**  | **Pg/Ln** | **Comment** | **Proposed Change** | **Resolution** |
| 7470 | Thomas Handte | 35.6.4.2 | 299.01 | "Non-AP EHT STAs may behave as if overlapping quiet intervals do not exist." is too general, because there are non-AP EHT STAs with dot11RestrictedTWTOptionImplemented set to false. Thus, they don't comply with the rules defined in 35.6.4.1 | Suggest to change as follows: "Non-AP EHT STAs with dot11RestrictedTWTOptionImplemented set to true may behave as if overlapping quiet intervals do not exist" | **Revised**Agree in principle.The sentence was revised to clarify that non-AP EHT STAs with dot11RestrictedTWTOptionImplemented set to true may ignore quiet intervals that overlap with the restricted TWT service period. **Tgbe editor please implement changes as shown in doc 11-21/1698r1 tagged as 7470** |
| 4161 | Alfred Asterjadhi | 35.6.4.2 | 299.01 | How do non-AP EHT STAs know that these are overlapping quiet intervals? I guess because they are able to parse both Quiet IE and B-TWT. But then arent thay R-TWT capable? Also what does it mean may behave as if they do not exist? Maybe good to clarify. | As in comment. | **Revised**Agree in principle. The resolution for this comment is same as CID 7470**Tgbe editor please implement changes as shown in doc 11-21/1698r1 tagged as 7470** |
| 6337 | Ming Gan | 35.6.4.2 | 298.58 | overlapping quiet intervals are vague, it should be quiet intervals overlapping with restricted TWT service periods. | as in the comment | **Revised**Agree in principle.The sentence was revised as suggested by the commenter.**Tgbe editor please implement changes as shown in doc 11-21/1698r1 tagged as 6337** |
| 6338 | Ming Gan | 35.6.4.2 | 299.01 | overlapping quiet intervals are vague, it should be quiet intervals overlapping with restricted TWT service periods. | as in the comment | **Revised**Agree in principle.The resolution for this comment is same as CID 6337**Tgbe editor please implement changes as shown in doc 11-21/1698r1 tagged as 6337** |
| 4490 | Arik Klein | 35.6.4.2 | 299.01 | Typo in the following sentence "Non-AP EHT STAs may behave as if overlapping quiet intervals do not exist" | replace with the following "Non-AP EHT STAs may behave as if overlapping quiet intervals \*does\* not exist" | **Revised**The sentence has changed as a resolution to CID 6337 and hence this comment does not apply anymore.**Tgbe editor, no change is needed for this CID** |
| 4435 | Arik Klein | 35.6.4.1 | 299.01 | It is not clear to which non-AP EHT STAs this sentence refers to: If it refers to the non-AP STAs that use the restricted TWT - what does it mean that ""they behave as if overlapping quiet interval do not exist"" - the quiet interval is not intended for them....If it refers to the non-AP EHT/He STAs that are in the BSS (but are not member of this specific restricted TWT SP it is not clear why the non-AP STA is allowed to ignore the Quiet Period? It is intended to aviod interfering the non-AP STAs which are members of the restricted TWT.... | Please rephrase the sentence, clarifying to which STAs this sentence refers (as detailed in the comment):If it refers to non-AP EHT STA that are members of the restricted TWT SP - the sentence is redundant (hence - please remove it).If it refers to the non-AP STAs which are not members of the restricted TWT SP - please replace the "may" with "shall". | **Revised**Agree in principle.The sentence is revised to clarify that Non-AP EHT STAs with dot11RestrictedTWTOptionImplemented set to true and who are members of an r-TWT service period may ignore quiet intervals overlapping with this restricted TWT service period.**Tgbe editor please implement changes as shown in doc 11-21/1698r1 tagged as 4435** |
| 6745 | Rojan Chitrakar | 35.6.4.2 | 298.61 | Are EHT STAs that are members of the rTWT exempted from the channel access prohibition during the quiet interval? Else how can they transmit during the rTWT SP? | State the channel access rule for EHT STAs that are members of the rTWT during the quiet interval. | **Revised**Agree in principle. The resolution for this comment is same as CID 4435**Tgbe editor please implement changes as shown in doc 11-21/1698r1 tagged as 4435** |
| 4089 | Abhishek Patil | 35.6.4.2 | 299.01 | Is there a typo in the sentence? Shouldn't this apply to only the non-AP EHT STAs that support rTWT and intend to participate during the TWT SP. Otherwise any EHT STA that doesn't support rTWT or has not subscribed to an rTWT SP will occupy the medium and render the feature useless? | Please fix the error in the sentence. | **Revised**Agree in principle. The resolution for this comment is same as CID 4435**Tgbe editor please implement changes as shown in doc 11-21/1698r1 tagged as 4435** |
| 4784 | Dana Ciochina | 35.6.4.2 | 299.01 | Non-AP EHT STAs may behave as if overlapping quiet intervals do not exist. - This behaviour can lead to not respecting the start times of the R TWT and rendering that useless. Additional mechanisms to protect the R TWT should and could be defined. | introduce some mechanism or condition to protect the R TWT, also for the case of STAs not respecting the quiet element (EHT STAs with dot11RestrictedTWTOptionImplemented=false) or missing it | **Revised** Agree in principle.The resolution is the same as that of CID 4435**Tgbe editor please implement changes as shown in doc 11-21/1698r1 tagged as 4435** |

***TGbe editor: Please note Baseline is 11be D1.2***

**35.7.4.2 Quieting STAs during restricted TWT service periods**

***TGbe editor: modify the paragraph 4 of Clause 35.7.4.2 at Page 394 of P802.11be D1.2 (Non-AP EHT STAs may behave…) as follows:***

Non-AP EHT STAs with dot11RestrictedTWTOptionImplemented set to true that are members of a restricted TWT service period shall ignore the overlapping quiet interval that correspond to the restricted TWT service period. (#7470#6337#4435)

SP: Do you agree to the resolutions provided in doc 11-21/1698r1 for the following CIDs for inclusion in the latest 11be draft?
7470, 6337, 6338, 4161, 4435, 6745, 4089, 4490, 4784