IEEE P802.11
Wireless LANs

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| CC50 CR for clause 37.4 |
| Date: 2025-05-10 |
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Abstract

This submission proposes resolutions of comments received from TGbn CC50 comments based on TGbn D0.1.

91 92 1969 2108 2109 2110 2217 2671 2973 2974 3646 3647 (12 CIDs)

Revisions:

Rev 0: Initial version of the document.

1. **Introduction**

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. The introduction and the explanation of the proposed changes are 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 802.11be 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** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 91 | Xiangxin Gu | 37.4.1 | 68.40 | change "A UHR STA operating in the 6 GHz band is a VHT STA except" to "A UHR STA operating in the 6 GHz band is a EHT STA except" | as the comment | Rejected-The comment failed to identify the technical issue, 6GHz operation starts with HE STA, so it is correct to say VHT STA here, which is ahead of HE STA. |
| 92 | Xiangxin Gu | 37.4.1 | 68.39 | add "A UHR STA operating in the 5 GHz band ..." | as the comment | Rejected-There is no any exception for the UHR STA operating in the 5Ghz band. In this case, it is covered by the second paragraph in this clause. |
| 1969 | Michael Grigat | 37.4.1 | 68.50 | Begin of sentence is missing: "in the 6 GHz band. for the 6 GHz band" | Add begin to the sentence "..for the 6 GHz band" | Revised-Agree with the comment, the sentence is not complete, propose to delete the uncomplete part.Apply the changes marked as #1969 in this document. |
| 2108 | Vishnu Ratnam | 37.4.1 | 68.50 | The last sentence of the paragraph is incomplete: "for the 6 GHz band are defined in 26.17.2 (HE BSS operation in the 6 GHz band)." | As in comment. | Revised-Agree with the comment, the sentence is not complete, propose to delete the uncomplete part.Apply the changes marked as #2108 in this document. |
| 2109 | Vishnu Ratnam | 37.4.1 | 68.57 | The spec needs to define the UHR BSS bandwidth, and clarify when it can be different from the EHT BSS bandwidth and which features and STAs the UHR BSS bandwidth applies to. | The commentor will bring a contribution to resolve the issue. |  |
| 2110 | Vishnu Ratnam | 37.4.1 | 68.57 | The spec needs to clarify the Critical update procedure and the change in BSS Parameter Change Count when there is a change in UHR features at the AP, such as NPCA, DPS etc. | The commentor will bring a contribution to resolve the issue. |  |
| 2217 | Brian Hart | 37.4.1 | 68.28 | Clients, to minimize interop issues, may declare no higher capability than the AP. If an AP subsequently changes its BW via OMN/OMI/UHR Operation element to a wider BW, there could be a goldrush changes of such clients reassociating. STAs that did declare a higher BW capability don't need to reasso,c but presumably that they are understood by the AP to stay at their current BW (e..g, the BSS's earlier BW) so would need to send OMN/OMI to attain use of the wider BW. Again this creates a goldrush of frames and excess collisions | Clients should be able to signal that they auto-opt-in to a wider BSS BW when signalled by the AP for some reasonable number of BIs (e..g, determined from Listen Interval) |  |
| 2671 | Xiaofei Wang | 37.4.1 | 68.50 | "." should be replaced by a "," | as in comment | Revised-the sentence after the said period is not complete, propose to delete the uncomplete part.Apply the changes marked as #2671 in this document. |
| 2973 | Mark RISON | 37.4.1 | 68.49 | " for the 6 GHz band are defined in 26.17.2 (HE BSS operation in the 6 GHz band)." is garbled/truncated | As it says in the comment | Revised-Agree with the comment, the sentence is not complete, propose to delete the uncomplete part.Apply the changes marked as #2973 in this document. |
| 2974 | Mark RISON | 37.4.1 | 68.54 | "with the restrictions as described in 35.15.1" should not have the "as" | As it says in the comment | Rejected-The comment failed to identify the technical issue, "as described“ is also used in baseline 802.11REVme D1.0. |
| 3646 | Alfred Asterjadhi | 37.4.1 | 68.26 | What does a UHR STA set the MLDOptionActivated to? Does it inherit from EHT. Please clarify, | As in comment. | Revised-Agree with the comment, add a note to clarify it.Apply the changes marked as #3646 in this document. |
| 3647 | Alfred Asterjadhi | 37.4.1 | 68.53 | There are some exceptions arising from the AP operating in DPS mode which need to be added as part of the exception. | As in comment. |  |

**Discussion:** None.

***TGbn Editor: please modify the following paragraph of 802.11bn D0.1***

**37.4.1 Basic UHR BSS operation**

A UHR STA has dot11UHROptionImplemented equal to true.

NOTE—An UHR AP sets dot11MultiLinkActivated to true and is affiliated with an AP MLD. A non-AP UHR STA with dot11MultiLinkActivated equal to true is affiliated with a non-AP MLD. A non-AP UHR STA with dot11MultiLinkActivated equal to false is not be affiliated with any non-AP MLD. (#3646)

A STA operating in the 2.4 GHz band that sets dot11UHROptionImplemented to true shall set dot11EHTOptionImplemented, dot11HEOptionImplemented, dot11HighThroughputOptionImplemented to true. A STA operating in the 5 GHz or 6 GHz band that sets dot11UHROptionImplemented to true shall set dot11EHTOptionImplemented, dot11HEOptionImplemented, dot11VHTOptionImplemented and

dot11HighThroughputOptionImplemented to true.

A UHR STA operating in the 6 GHz band is a VHT STA except that it is exempt from following VHT and HT functionalities and/or requirements that are not applicable or that are superseded by equivalent HE functionalities and/or requirements (see Clause 26 (High Efficiency (HE) MAC specification) and Clause 27 (High Efficiency (HE) PHY specification)), or equivalent EHT functionalities and/or requirements (see Clause 35 (Extremely high throughput (EHT) MAC specification) and Clause 36 (Extremely high throughput (EHT) PHY specification), or equivalent UHR functionalities and/or requirements (see Clause 37 (Ultra high reliability (UHR) MAC specification) and Clause 38 (Ultra high reliability (UHR) PHY specification), and that it shall use the HE format, EHT format or UHR format instead of the VHT, HT\_GF, or HT\_MF format for PPDUs transmitted in the 6 GHz band. (#2108, 2671, 2973)

If a UHR BSS operating channel width is announced in the EHT Operation element, then a UHR AP shall announce the BSS operating channel width(s) to non-EHT non-AP STAs with the restrictions as described in 35.15.1 (Basic EHT BSS operation).