**IEEE P802.11  
Wireless LANs**

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| CC50 CR for CIDs on overhearing OBSS CSI | | | | |
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**Abstract**

This submission contains proposed comment resolutions to comments on P802.11bn D0.1.

This submission proposes resolutions for following CIDs received for TGbn CC50:

415, 982, 983, 3573, 3574

**Revisions:**

Rev 0: Initial version of the document.

Rev 1: Modify the document based on comments from Leonardo Lanante.

Rev 2: Modify the proposed text based on feedbacks during the presentation.

Rev 3: Modify the resolution of CID 982 and 983.

Rev 4: Delete the resolution of CID 982 and 983.

***TGbn editor: The baseline for this document is P802.11bn D0.2, P802.11REVmeD7.0 and the document IEEE 802.11-25/0681r6.***

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

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

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

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| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **Pg/Ln** | **Comment** | **Proposed Change** | **Resolution** |
| 415 | 37.7 | 69/19 | It's not clear how the responding AP acquire the OBSS CSI report in the UHR TB sequential/Joint NDP sounding process, through overhearing, or forwarding by initiating AP through the DS or over the air ? | Clarify that responding AP can obtain the OBSS CSI report though overhearing in the UHR TB sequential/Joint NDP sounding process | Revised.  Agree in principle.  TGbn editor, please make the changes tagged by CID #415 in 25/735r4. |
| 982 | 37.7.2 | 70 | According to Figure 37-2, in case of Cross-BSS UHR TB sounding sequence, the Compressed Beamforming/CQI report is transmitted to the UHR Co-BF beamformer. However, the text of clause 37.7.2 does not contain any technical details regarding how these reports are received by that responding AP, which need these report in order to derive the steering matrix in the following DL Co-BF PPDU (i.e. in order to null the OBSS STAs associated with the UHR Co-BF beamformer). | Please add the relevant technical requirements to deliver the Channel state information/ Compressed Beamforming/CQI reports to the responding AP. |  |
| 983 | 37.7.2 | 70 | According to Figure 37-3, in case of UHR TB joint sounding sequence, the Compressed Beamforming/CQI report is transmitted by each of the solicited UHR non-AP STAs only (!!) to the UHR Co-BF beamformer. However, the text of clause 37.7.2 does not contain any technical details regarding how these reports are received by that responding AP, which need these report in order to derive the steering matrix in the following DL Co-BF PPDU (i.e. in order to "null" the OBSS STAs associated with the UHR Co-BF beamformer). | Please add the relevant technical requirements to deliver the Channel state information/ Compressed Beamforming/CQI reports to the responding AP. |  |
| 3573 | 37.7.2 | 69/40 | UHR TB sounding relies on one AP overhearing CSI feedback solicited by another AP. However, the transmit power of the CSI feedback is based on the trigger frame soliciting the CSI feedback. Clarify how the overhearing AP can be guaranteed to receive the CSI feedback with enough link budget. | As in comment | Rejected.  Consensus has not been reached on the technical details, and further discussion is required. |
| 3574 | 37.7.2 | 69/40 | UHR TB sounding relies on one AP overhearing CSI feedback solicited by another AP. After the procedure, the soliciting or initiating AP does not know exactly whether the overhearing AP succesfully received the CSI feedback. We should define a mechanism for an initiating AP to solicit reception status of CSI feedback by the overhearing AP. | As in comment | Rejected.  Consensus has not been reached on the technical details, and further discussion is required. |

**Introduction**

This contribution introduces some changes to how the responding AP obtains OBSS CSI during the Co-BF sounding operation.

The changes are based on P802.11bn D0.2, P802.11REVmeD7.0 and the document IEEE 802.11-25/0681r6.

**Proposed Texts:**

***TGbn editor, please make the following changes in Section 37.7.3:***

**37.7.3 Rules for UHR Co-BF sounding protocol sequences**

[...]



**Figure 37-4—UHR Co-BF joint NDP sounding sequence initiated by AP2**

***TGbn editor, please insert the following text after the Figure 37-4 in Section 37.7.3:***

*(#415)*The responding AP obtains the channel state information carried in TB PPDU(s) sent from non-AP UHR STA(s) associated with the initiating AP, based on the information carried in the BFRP Trigger frame in either the cross-BSS UHR Co-BF sounding sequence or the UHR Co-BF joint NDP sounding sequence.