IEEE P802.11
Wireless LANs

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| LB279 Comment Resolution – Clause 11 |
| Date: 2024-03-04 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Jonathan Segev | Intel |  |  | jonathan.segev@intel.com |
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Abstract

This submission proposes to address the following CIDs 1050 (total of 1 CID) based in Draft P802.11REVme\_D4.2, and Draft P802.11bk D1.0.

Revisions:

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 TGbk Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

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

**The text preceded by “Discussion” is not part of the adopted changes.**

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| **CID** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 1050 | 44.3 | 11.21.6.4.4.2 | "Otherwise, the R2I NDP shall be an HE Ranging NDP and the LMR(s) shall be transmitted in an HE SU PPDU." - Is this changing baesline behavior? | If this is changing baseline behavior it should be removed. | **Revise.**See discussion depecited below TGbk editor make the changes identified below in r0 of <https://mentor.ieee.org/802.11/documents?is_dcn=295&is_year=2024>  |

***Discussion:***

*The baseline for 11bk is REVme which incorporates 11az and 11bd the text in clause 11.21.6.4.4.2 inadvertendly dropped the 11bd changes. These are brought back.*

*Furthermore, the 11az text in clause 11.21.6.4.4.2 in the paragraph starting with “Accoridingly:” (REVme P2696 L.54) is dealing with the CH\_BANDWITH parameter setting in TXVECTOR, however this is redundant and partial to clause 11.21.6.4.6 Transmission of a ranging NDP where the complete set of the TXVECTOR parameters is detailed.*

*The resolution will do the following:*

1. *Use REVme 4.2 as baseline, by that including 11bd into the 11bk changes.*
2. *Delete redundant/repeated behavior of TXVECTOR setting out of clause 11.21.6.4.4.2.*
3. *Limit the behavior described per R2I NDP and LMR formats for 320MHz to specific formats.*

***Resolution for CIDs 1050:***

*TGbk editor, replace baseline text of clause 11.21.6.4.4.2 from IEEE 802.11az-2022 with text from clause 11.21.6.4.4.2 from P802.11REVme D.4.2 and make the following changes:*

**11.21.6.4.4.2 Measurement sounding phase of non-TB ranging**

***In 11.21.6.4.4.2 P.42 L.5-11 change 1st paragraph as follows:***

An ISTA shall initiate a non-TB ranging measurement instance by transmitting a Ranging NDPAnnouncement frame addressed to the RSTA, followed by an I2R NDP SIFS after. In response to the correctlyreceived Ranging NDP Announcement frame addressed to itself, the RSTA shall transmit an R2I NDP; seeFigure 11-55 (Non-TB ranging measurement exchange sequence). I2R NDP and R2I NDP are either HE Ranaing NDP or EHT Ranging NDP when dot11NGVOptionImplemented is equal to false and NGV Ranging NDPs when dot11NGVOptionImplemented is equal to true (#1050). Themeasurement-reporting phase consists of an LMR frame, which is a Location Measurement Report as definedin 9.6.7.49 (Location Measurement Report (LMR) frame format).

***In 11.21.6.4.4.2 delete the following paragraphs as shown below:***

— ~~If the CH\_BANDWIDTH of the I2R NDP is equal to 320 MHz, the I2R NDP shall be an EHT Ranging NDP, otherwise it shall be an HE Ranging NDP.~~

~~For the Ranging NDP Announcement frame, when not received in an EHT/HE/VHT/HT/NGV PPDU: from the RXVECTOR parameter CH\_BANDWIDTH\_IN\_NON\_HT when the Ranging NDP Announcement frame is received in a non-HT duplicate PPDU and is 20 MHz when the Ranging NDP Announcement frame is received in a non-HT PPDU~~.

 ~~and the LMR(s) in the corresponding measurement exchange sequence shall be transmitted in an EHT SU transmission. Otherwise, if the Format and Bandwidth field is equal to 8 (i.e. EHT Single RF LO 320MHz), the LMR(s) shall be transmitted in an HE SU PPDU.~~ (#1050)

*TGbk editor make changes in P802.11bk 11.21.6.4.4.3 as follows:*

**11.21.6.4.4.3 Non-TB ranging measurement reporting phase**

The data rate or MCS used for transmitting the R2I and I2R LMR frames is solely decided by thetransmitter of each of the frames. The bandwidth used to transmit the R2I LMR frame shall be nogreater than that of the soliciting NDP Announcement frame, and the transmit bandwidth of theI2R LMR frame shall be no greater than the bandwidth of the preceding R2I LMR frame.

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The R2I LMR and I2R LMR frames shall be carried in an HE SU PPDU or an EHT SU transmission using a EHT MU PPDU. (#1050).

*TGbk editor make changes in P802.11bk 9.4.2.298 as follows:*

**9.4.2.301 Ranging Parameters element**

The Format And Bandwidth subfield indicates the requested or allocated PPDU format and bandwidth used to transmit the I2R/R2I NDP exchange as part of the non-TB ranging, or TB ranging measurement exchange; see 11.21.6.4.3 (TB ranging measurement exchange) and 11.21.6.4.4 (Non-TB ranging measurement exchange). The encoding of this subfield is given in Table 9-410 (Format And Bandwidth subfield).

**Table 9-410—Format And Bandwidth subfield**

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| Field value | Format  | Bandwidth |
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