IEEE P802.11
Wireless LANs

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| Comment Resolution for six CIDs related to TGaz LB253 |
| Date: 2021-3-25 |
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Abstract

This document proposes resolution for CID5061, CID5066, CID5198, CID5222, CID5224, CID5230 related to TGaz LB253.

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| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Page** | **Line** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 5061 | 160.00 | 13 | 11.21.6.4.4.3 | Change 'shall' to 'may' as this is not needed for RSTA to compute as it can on its own estimate the CFO error, different than the TB case | As per comment | RevisedAgree in principle with the commenter. TGaz editor make the changes identified below in **11-21-0505-01-00az** six CID resolutions for lb253 <https://mentor.ieee.org/802.11/dcn/21/11-21-0505-01-00az-six-CID-resolutions-for-lb253.docx> |
| 5066 |  |  | 11.21.6.4.5.211.21.6.4.5.3 | Change the text 'pre-determined sequence' to 'null-SAC-HE-LTF' in Figure 11-37p & Figure 11-37r | As per comment | RevisedAgree in principle with the commenter. TGaz editor make the changes identified below in **11-21-0505-01-00az** six CID resolutions for lb253 <https://mentor.ieee.org/802.11/dcn/21/11-21-0505-01-00az-six-CID-resolutions-for-lb253.docx>  |
| 5198 | 154.00 | 25 | 11.21.6.4.4.2 | "The Ranging NDP Announcement frame and I2R/R2I NDP refer to a Ranging NDP Announcement frame and HE Ranging NDPs respectively." Since we remove NDP-A abbreviation, no point to define here. | Change to "The I2R/R2I NDPs refer to HE Ranging NDPs." | RevisedAgree in principle with the commenter. TGaz editor make the changes identified below in **11-21-0505-00-00az** six CID resolutions for lb253 <https://mentor.ieee.org/802.11/dcn/21/11-21-0505-01-00az-six-CID-resolutions-for-lb253.docx> |
| 5222 | 156.00 | 23 | 11.21.6.4.4.2 | To avoid ambiguity and prevent unnecessary ranging requests, the I2R N\_STS field should be set to exactly the value in either I2R STS <= 80 MHz or I2R STS > 80 MHz | As in comment | RejectThe specification provides ISTA the flexibility of selecting the value of N\_STS parameters up to the maximum negotiated values just in case one or more or its antennas are dynamically taken away for other coexistence use-cases such as BT/LTE.  |
| 5224 | 160.00 | 17 | 11.21.6.4.4.3 | It would be good to elaborate on how RSTA adjusts T1,T4 timestamps based on CFO parameter included in I2R LMR. | Add informative text to clarify how RSTA adjusts T1 and T4 timestamps. |  RejectThe clock rate correction between the peers seem obvious as it has been prescribed in REVmc specification without needing to include an informative text. Essentially, the RTT calculation needs to include the clock rate diefferences for the measurement to be meaningful (see 11.21.6.4.4.2 for further details.) |
| 5230 | 167.00 | 40 | 11.21.6.4.5.3 | The Null-SAC-HE-LTF definition applies for both the case where there is a SAC mismatch and when SAC = 0. However, in this clause we refer to the NDP sent as response to SAC = 0 as Null-SAC HE-LTF (P167L17), but don't have a similar text for the SAC mismatch case | Clarify if the Null-SAC-HE-LTF is used when there is a SAC mismatch. |  RejectThe relevant text describes the usage of ‘any secure HE-LTF’ which is inclusive of transmitting Null-SAC-HE-LTF, the suggested behavior pointed out by the commenter |

**Discussion (CID5061)**: In the NTB case, both ISTA and RSTA are able to measure the CFO error on their own therefore there’s no technical reasons for either devices to share their measured CFO based on reception of peer’s NDP hence the suggestion is to make the CFO parameter field in the LMR (R2I and I2R) reserved for NTB operation.

**Resolution for CID5061: TGaz editor add the text in page 160 line 13**

In the Non-TB Ranging, both RSTA and ISTA should measure the CFO value based on reception of I2R NDP and R2I NDP respectively. Therefore, the CFO parameter field in the I2R LMR, if negotiated, and R2I LMR are reserved. ~~If I2R LMR reporting was negotiated, then the ISTA shall include a CFO parameter in the I2R LMR; see 9.6.7.49 (Location Measurement Report frame format). The ISTA shall estimate the CFO parameter based on the R2I NDP from the RSTA.~~ The RSTA and ISTA may account for clock rate differences between ISTA and RSTA respectively based on their own measured CFO value ~~parameter included in the received I2R LMR~~. The mechanism by which t4 and t1 are adjusted by RSTA, and t2 and t3 are adjusted by the ISTA is implementation specific. ~~The CFO parameter refers to the t1 and t4 indicated in the same I2R LMR instance.~~

**Resolution for CID5198: TGaz editor add the text in page 154 line 25**

The ~~Ranging NDP Announcement frame and~~ I2R NDP and ~~/~~R2I NDP refer to ~~a Ranging NDP Announcement frame and~~ HE Ranging NDPs respectively.

**Resolution for CID5066: TGaz editor replace Figure 11-37p with the following Figure in page 165**



**Resolution for CID5066: TGaz editor replace Figure 11-37r with the following Figure in page 169**



**References:**

**[1] Draft P802.11az\_D3.0**