IEEE P802.11
Wireless LANs

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| Comment Resolution for various CIDs related to TGaz LB253 |
| Date: 2021-3-16 |
| Author(s): |
| Name | Affiliation | Address | Phone | Email |
| Ali Raissinia | Qualcomm Inc. |  |  | alirezar@qti.qualcomm.com |

Abstract

This document proposes resolution for CID5045, CID5046, CID5047, CID5049, CID5050, CID5051, CID5052, CID5053, CID5056, CID5057, CID5058, CID5059, CID5060, CID5061, CID5062, CID5063, CID5064, CID5067, CID5068, CID5069, CID5070, and CID5071 related to TGaz LB253.

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| **CID** | **Page** | **Line** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 5045 | 144.00 | 4 | 11.21.6.4.3.1 | Add a parenthesis after '.....TXOPs)' and change 'must' to 'shall' | As per comment | Accept |
| 5046 | 144.00 | 6 | 11.21.6.4.3.1 | Change 'are made' to 'shall be made' | As per comment | Accept |
| 5047 | 144.00 |  37 | 11.21.6.4.3.1 | Modify the text 'An ISTA shall transmit any Fine Timing Measurement Request frames outside of Availability Windows allocated to itself. (#1170, #1566, #3672) Inside Availability Windows allocated to itself, an ISTA shall not transmit any frame except when assigned UL resources by a TF transmitted by the RSTA' to | An ISTA may only transmit any Fine Timing Measurement Request frames outside of Availability Windows allocated to itself. (#1170, #1566, #3672) Inside Availability Windows allocated to itself, an ISTA shall not transmit any frame except when assigned UL resources by a Ranging TF transmitted by the RSTA | RevisedAgree in principle with the commenter. TGaz editor make the changes identified below in **11-21-0478-00-00az** CID resolutions-for lb253 <https://mentor.ieee.org/802.11/dcn/21/11-21-0478-00-00az-CID-resolutions-for-lb253.docx>  |
| 5049 | 147.00 |  10 | 11.21.6.4.3.3 | Modify the text 'Each Trigger frame Ranging Sounding shall allocate uplink resources for one or more ISTAs' I2R NDP multiplexed in the spatial stream domain' to | Each Trigger frame Ranging Sounding shall allocate uplink resources for one or more ISTAs' I2R NDP multiplexed in the spatial stream domain covering the full bandwidth | Accept |
| 5050 | 148.00 | 3 | 11.21.6.4.3.3 | Delete the text 'midamble periodicity subfield' as it is not clear why we need that? | As per comment | Reject. This subfield identification (i.e. midamble) in the common info field of the trigger sounding frame is carried from 11ax. |
| 5051 | 148.00 | 21 | 11.21.6.4.3.3 | Change 'sets' to 'shall set' | As per comment | RevisedAgree in principle with the commenter. TGaz editor make the changes identified below in **11-21-0478-00-00az** CID resolutions-for lb253 <https://mentor.ieee.org/802.11/dcn/21/11-21-0478-00-00az-CID-resolutions-for-lb253.docx> |
| 5052 | 149.00 | 13 | 11.21.6.4.3.3 | Modify the text 'The ISTA records the time at which the I2R NDP is transmitted (t1). The RSTA then captures the time at which the I2R NDP arrives (t2) and records the time at which the R2I NDP is transmitted (t3).The ISTA finally captures the time at which the R2I NDP arrives (t4)' to | The ISTA shall record the time at which the I2R NDP is transmitted (t1). The RSTA shall then capture the time at which the I2R NDP arrives (t2) and shall record the time at which the R2I NDP is transmitted (t3).The ISTA shall finally capture the time at which the R2I NDP arrives (t4) |  Accept |
| 5053 | 150.00 | 21 | 11.21.6.4.3.3 | Change 'will be based' to 'shall be based' | As per comment | Accept |
| 5056 | 155.00 | 21 | 11.21.6.4.4.2 | Change 'is' to 'shall be' | As per comment | RevisedAgree in principle with the commenter. TGaz editor make the changes identified below in **11-21-0478-00-00az** CID resolutions-for lb253 <https://mentor.ieee.org/802.11/dcn/21/11-21-0478-00-00az-CID-resolutions-for-lb253.docx> |
| 5057 | 156.00 | 3 | 11.21.6.4.4.2 | Change 'can' to 'may' | As per comment | Accept |
| 5058 | 156.00 |  35 | 11.21.6.4.4.2 | Modify the text 'The ISTA records the time at which the I2R NDP is transmitted (t1). The RSTA then captures the time at which the I2R NDP arrives (t2) and records the time at which the R2I NDP is transmitted (t3). The ISTA finally captures the time at which the R2I NDP arrives (t4)' to | The ISTA shall record the time at which the I2R NDP is transmitted (t1). The RSTA shall then capture the time at which the I2R NDP arrives (t2) and shall record the time at which the R2I NDP is transmitted (t3). The ISTA shall finally capture the time at which the R2I NDP arrives (t4) | AcceptDuplicate of 5052 |
| 5059 | 158.00 | 8 | 11.21.6.4.4.3 | Change 'is reported' to 'shall be reported' | As per comment | Accept |
| 5060 | 158.00 | 17 | 11.21.6.4.4.3 | Change 'carry' to 'shall carry' | As per comment | Accept |
| 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 | AcceptWe should discuss this behavior? |
| 5062 | 161.00 | 9 | 11.21.6.4.5.2 | Change 'are carried' to 'shall be included' | As per comment | RevisedAgree in principle with the commenter. TGaz editor make the changes identified below in **11-21-0478-00-00az** CID resolutions-for lb253 <https://mentor.ieee.org/802.11/dcn/21/11-21-0478-00-00az-CID-resolutions-for-lb253.docx> |
| 5063 | 161.00 | 10 | 11.21.6.4.5.2 | Change 'is also included' to 'shall also be included' | As per comment | RevisedAgree in principle with the commenter. TGaz editor make the changes identified below in **11-21-0478-00-00az** CID resolutions-for lb253 <https://mentor.ieee.org/802.11/dcn/21/11-21-0478-00-00az-CID-resolutions-for-lb253.docx> |
| 5064 | 164.00 |  18 | 11.21.6.4.5.2 | Modify the text 'an RSTA or ISTA that transmits the R2I or I2R Location Measurement Report (LMR) frame shall include the Secure LTF Parameters field' to | an RSTA that transmits the R2I Location Measurement Report (LMR) frame shall include the Secure LTF Parameters field..As ISTA doesn't send Secure LTF Parameter field in I2R LMR | AcceptSecure LTF parameters are set by RSTA only |
| 5067 | 166.00 | 9 | 11.21.6.4.5.3 | Change 'are carried' to 'shall be included' | As per comment | Accept |
| 5068 | 166.00 | 10 | 11.21.6.4.5.3 | Change 'is also included' to 'shall also be included' | As per comment | Accept |
| 5069 | 170.00 |  7-10 | 11.21.6.4.5.4 | Change two occurrences of 'is used' to 'shall be used' and also 'use' to 'shall use' | As per comment | Accept |
| 5070 | 170.00 |  20 | 11.21.6.4.5.4 | Change 'is initialized' to 'shall be initialized' and 'is incremented' to 'shall be incremented' | As per comment | Accept |
| 5071 |  171 |  10 | 11.21.6.4.5.4 | Change 'are provided' to 'shall be used' | As per comment | Accept |

**Resolution for CID5047: TGaz editor add the text in page 144 line 37**

If required, a~~A~~n ISTA shall transmit any Fine Timing Measurement Request frames outside of Availability Windows allocated to itself. (#**1170**, #**1566**, #**3672**) Inside Availability Windows allocated to itself, an ISTA shall not transmit any frame except when assigned UL resources by a TF transmitted by the RSTA. (#**3671**)

**Resolution for CID5051: TGaz editor add the text in page 148 line 21**

The RSTA shall set~~s~~ a different value than the previous transmission in the Sounding Dialog Token Number field in its transmitted Ranging NDP Announcement frame as part of each Measurement Sounding phase. Measurement instances are associated with the Sounding Dialog Token Number field value.

**Resolution for CID5056: TGaz editor add the text in page 155 line 18**

The ISTA maintains a sounding dialog token counter modulo 64 for each ~~RSTA corresponding to a Non-TB Ranging~~ FTM session. When transmitting a Ranging NDP announcement frame to an RSTA, the Sounding Dialog Token Number subfield in the Sounding Dialog field ~~is~~ shall be set to the value of the corresponding counter; after which the counter shall be ~~is~~ incremented by 1. (#**3727**, #**3728**)

**Resolution for CID5062 and CID5063: TGaz editor add the text in page 161 line 9**

An example of the negotiation and two TB Ranging Measurement Exchanges with Secure LTF is shown in Figure 11-37o (Overview of TB Ranging measurement exchange with Secure LTF), where the LTF\_GEN\_SAC and SEC\_LTF\_CTR refer to the LTF Generation SAC and Secure LTF Counter. The first LTF Generation SAC and its associated Secure LTF Counter (#**2289**) parameters ~~are carried~~ shall be included in an initial Fine Timing Measurement frame, and thenafter any subsequent LTF Generation SAC and its corresponding Secure LTF Counter shall be included in ~~a~~ R2I Location Measurement Report frame. The LTF Generation SAC ~~is~~ shall also be included in the Ranging Trigger frame Secure Sounding.

**References:**

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