IEEE P802.11  
Wireless LANs

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| 802.11  [Resolutions to a few LB240 comments  (relative to IEEE 802.11 REVmd D2.0 and P802.11az D1.4) | | | | |
| Date: 2019-10-02 | | | | |
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**Abstract**

This submission proposes resolutions to the following LB240 CIDs:1143, 1693, 1698, 1916, 1764, 1781, 1911, 1915 2013, 2115, 2128, 2426.

History:

R0: Initial Version

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| 1143 | 75.01 | 9.6.10 | Add DMG/eDMG to the Table 9-375 for public action field value 32 and 33 as well. | Add DMG/eDMG in addition to besides TB and non-TB. | Revise. Editorial instructions in 11-19-466r4 addresses this issue. No further text changes required. |
| 1693 | 72.32 | 9.6.7.49 | When new Public Action frames are defined, the corresponding Action field value need to be defined and Table 9-362 Public Action field values in Cl. 9.6.7.1. Similar comment applies for 9.6.7.50 and 9.6.7.51 as well. | Update Table 9-362 with a new item defining the Action field for ISTA Passive Location Measurement Report frame. Also the reference to the clause where Public Action field values are listed should be 9.6.7.1. | Revise. Editorial instructions in 11-19-466r4 addresses this issue. No further text changes required. |
| 1698 | 78.00 | 11.3.3 | TBD in the draft -- at this time the only unicast Management frames that are protected by PTKSA derived from PASN authentication are IFTMR, IFTM and LMR. Why cant they be listed (instead of leaving this as a TBD)? | Enumerate the PTKSA derived from PASN Authentication protected class-B Management frames that are currently defined in the draft -- initial Fine Timing Measurement Request frame, initial Fine Timing Measurement and Location Measurement Report. (and delete item iv (Lines 4-6)). | Revise. Editorial instructions in 11-19-466r4 addresses this issue. No further text changes required. |
| 1916 | 78.04 | 11.3.3 | TBD needs to be finalized | As per comment | Revise. Editorial instructions in 11-19-466r4 addresses this issue. No further text changes required. |

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| 1764 | 93.13 | 11.22.6.4.2 | It is unclear why EDCA is part of the title: 11.22.6.4.2 (RSTA Centric EDCA based measurement scheme. Typically channel access mechanism is not mentioned in the title. AP uses EDCA when it transmits Trigger frames. | Please, rename the clause with shorter and more precise title and ensure that the same title is used throughout the spec. Avoid using EDCA as an antonym for Triggered. | Revise. The convention used is to identify the channel access mechanism used to transmit the frames on which the measurements are performed. In this case, the measurements are performed on [the transmitted and received] Fine Timing Measurement frames which are transmitted after gaining access to the media using EDCA mechanisms. Use of the name consistently is addressed in submission 11-19-1483r2.  No text changes required. |
| 1781 | 81.09 | 11.22.6.1.1 | Is there any signaling that RSTA or ISTA has done the ranging and there is no more ranging operation in the remainder of the availability window? Such an indication could help a STA to return to power save faster and sleep mode. | Please clarify is there a possibilty to indicate that a STA has succesfully performed FTM measurement and will not be available for the remainder of the availability period. | Reject. Cl. 11.22.6.4.3 describes the measurement exchange in TB Ranging which consists of a polling, sounding and a measurement reporting phase. Once the measurement reporting phase is completed both the ISTA and the RSTA are aware that the measurement exchange (referred to in earlier drafts as ranging operation) is completed. There is no need for any explicit signaling that the measurement exchange is complete.  No text changes required. |
| 1911 | 13.28 | 6.3.56.1 | It makes no sense to start Note 3 by saying that this first text is talking about MLME-FINETIMINGMSMT.request only for Figure 6-17, and then have the next sentence talk about the primitive for 6-17b and 6-17c. | This Note needs more restructuring to apply to all the cases, clearly. | REVISE. Editor instructions in submission 11-19-1559r1 corresponding to CID 1909 addresses this issue.  No further text changes required, |
| 1915 | 14.18 | 6.3.56.2.2 | Should this really be the same (existing) primitive, or a new primitive? The new feature uses a new frame exchange, and (apparently) an exclusive set of parameters. It probably should be a new set of primitives. | Define new primitives, instead of making existing primitives so dependent (and mutually exclusive) on the usage. | Reject. The intend is to preserve the interaction between the SME and the MAC for all measurement exchanges (EDCA based, TB and non-TB). The SME always invokes the MLME-FINETIMINGMSMT.request to initiate the measurement exchange. |
| 2013 | 4.07 | 4.3.19.19 | [Re-raising this comment from the comment collection, as it is not possible to determine from 18/1544r8 whether/how it was addressed. References are to the CC draft and hence may be wrong against D1.0.] Shouldn't have a TBD | Replace the TBD with some text | REVISE. Clause 4.3.19.19 in D1.4 includes additional content describing features in .11az. The corresponding editor instructions are in submission 11-19-1325r1.  No text changes required. |
| 2115 | 46.12 | 11.22.6.1.1 | [Re-raising this comment from the comment collection, as it is not possible to determine from 18/1544r8 whether/how it was addressed. References are to the CC draft and hence may be wrong against D1.0.] Duplicate of sentence at line 14 | Delete sentence starting at line 12 | REVISE. The duplication referred in the comment. “In EDCA based measurement the ISTA transmits an FTM Request to indicate its on channel availability” is removed in D1.4 (see Cl. 11.22.6.1.1 P101L16-17). |
| 2128 | 52.06 | 11.22.6.3.4 | [Re-raising this comment from the comment collection, as it is not possible to determine from 18/1544r8 whether/how it was addressed. References are to the CC draft and hence may be wrong against D1.0.] "one of the first 4 subfields of this field" is too brittle to be spec language | Refer to the fields explicitly | REVISE. D1.4 (P114L22-25) addresses the issue raised in this comment. The revised text now states “…and by the ISTA setting at least one of the first four subfields (AOA TX Capability, AOA RX Capability, AOD TX Capability, AOD RX Capability) of this field to 1 and the RSTA setting one the corresponding subfields (AOA RX Capability, AOA TX Capability, AOD RX Capability, AOD TX Capability) of this field to 1”.  No text changes required. |

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| 2426 | 36.01 | 9.4.2.26 | The Notes for TB Ranging Responder should be "A STA sets the TB Range Responder field ...". | As in comment. | REVISE. Incorporate editor instructions corresppnding to CID 2426 in submission 11-19-1686r0. |

Discussion: Table 9-153 where bits in the Extended Capabilities element are described, the notes column corresponding to the non-TB Ranging Responder and the TB Ranging Responder fields incorrectly refer to how the TB Range Responder field and the non-TB Range Responder field respectively are set (the field names are also inconsistent between the Information Column and the Notes Column, in addition it to being swapped).

Resolution: Revise.

***TGaz Editor: Changes the entries corresponding to non-TB Ranging Responder and TB Ranging Responder in Table 9-153 as shown below:***

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| Bits | Information | Notes |
| <ANA> | non-TB Ranging Responder | A STA sets the (#1895, #2644) non-TB Ranging (#2426) Responder field to 1 if dot11NonTriggedBasedRangingRespImplemented is true. Otherwise the STA sets the non-TB Ranging (#2426) Responder field to 0. See 11.22.6 (Fine Timing Measurement Procedure). |
| <ANA> | TB Ranging Responder | A STA sets the TB Ranging (#2426) Responder field to 1 if dot11TriggerBasedRangingRespImplemented is true. Otherwise the STA sets the TB Ranging (#2426) Responder field to 0. See 11.22.6 (Fine Timing Measurement Procedure). |