IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 802.11  [CR for various comments by TGaz]  (relative to P802.11az/D2.4) | | | | |
| Date: 2020-10-20 | | | | |
| Author(s): | | | | |
| Name | Company | Address | Phone | Email |
| Jonathan Segev | Intel Corporation | 2200 Mission College Blvd |  | jonathan.segev@intel.com |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**Abstract**

This submission contains proposals to resolve LB#249 CIDs 3006, 3007, 3264, 3265, 3317, 3320, 3321, 3322, 3455, 3456, 3457, 3458, 3507, 3614, 3615, 3627, (? CIDs total).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Page/**  **Line** | **Clause** | **Comment** | **Proposed change** | **Resolution** |
| 3006 | 38.2 | 8.3.4.4 | In 8.3.4.4 the text in the table refers to TRN\_SEQUENCE, and it is tied to Secure TRN. This is incorrect since non-secured TRNs can also be used. Needs fix. | Split the TRN\_SEQUENCE and the Secure TRNs details | Revised.  The regular (non-secured) TRN case does not require mentioning as this is a fixed value, as a result the vector description table only requires the case for secure, for clarity the parameter name TRN\_SEQUENCE was renamed to SECURE\_TRN\_SEQUENCE.  TGaz editor make changes to 11-20-1683r1 as shown below. |

**Resolution:**

**TGaz editor make the following changes to D2.4 P.39 L.2 as follows:**

1. Table 8-4 —Vector description

|  |  |  |
| --- | --- | --- |
| Parameter | Associated vector | Value |
| SECURE\_TRN\_SEQUENCE | TRNVECTOR | Indicates the Secure TRN bit sequences used in the EDMG secure ranging PPDU.  The Secure TRN bit sequences generation is defined in [12.2.11](#H12o2o11) (EDMG Secure Ranging Sequences). |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Page/**  **Line** | **Clause** | **Comment** | **Proposed change** | **Resolution** |
| 3007 | 38.11 | 8.3.5.14.2 | Text refers to code "IntegrityCheckError" for "RXERROR", but it is not included in the "RXERROR" definition. | Add the definition | **Revised**.  This is a (technical) duplicate of CID 3844, the parameter IntegrityCheckError was added to RXERROR, refer to D2.4 table 8-3 P.38 line 10.  Refer to discussion in submission 11-20-1257.  TGaz editor, no further action needed. |
| 3264 | 150.28 | 11.22.6.4.5 | "The NUM\_USER parameter is set to the number of ISTAs that the HE Ranging NDP PPDU is transmitted to." - Checking with the RX/TX Vector table, seems this parameter is only used \*if\* LTF\_SEQUENCE present, i.e., if in the secure mode - not clear from the description here. | Add text clarifying the difference of this parameter between secure mode and otherwise (not used or equal to "1" in non-secure). |  |
| 3990 | 28.18 | 6.3.56.1 | Figure 6-16 in the baseline shows the frame exchange including the antenna level. Figures 6-17b and 6-17c should also be described in that level for clarity. | As in comment. |  |
| 3899 | 58.1 | 9.4.2.26 | Table 9-153, the note for the entry "Phase Shift Feedback Support" does not link this entry to a STA capable of the TB or NTB operation, although the entry is only applicable to a STA that supports TB or NTB ranging. | Modify the note so that the entry is only applicable to a STA that supports TB or NTB ranging. |  |
| 3265 | 151.35 | 11.22.6.4.5 | "In the secure variant TB ranging measurement exchange, the LTF\_OFFSET parameter is set to as defined in 11.22.6.4.6.2 (TB ranging measurement exchange for secure LTF). Otherwise, the LTF\_OFFSET parameter is not present." I don't see the point of having the LTF\_OFFSET in the RX/TX Vector, the transmitter does not need to know (it can construct LTFs based on N\_STS and N\_REP) while receiver needs this knowledge passed by MAC entity (while RXVECTOR is from PHY-to-MAC). | Remove here and from RX/TX Vector. Should be added to PHY SAP service primitive parameters, similar to (or as pat of) 8.3.5.20 PHY-RXLTFSEQUENCE.request; also compare with definition in Table 27-2a |  |
| 3317 | 29.38 | 6.3.56.2.1 | Inconsistent use of terms: in the entire draft there are references to TB Sounding Exchange and non-TB Sounding Exchange. While this may be referencing the exchange of frames during the sounding phase, the sub-clauses that describe TB ranging and non-TB ranging are titled "TB Ranging Measurement exchange and Non-TB Ranging Measurement exchange). There is no definition of a TB Sounding or a non-TB Sounding Exchange. | Either define TB and non-TB Sounding Exchange or use TB ranging measurement exchange and non-TB ranging measurement exchange (prefer the latter). This occurs in multiple locations in the draft (only the first occurrence is identified here). |  |
| 3320 | 32.20 | 6.3.53.2.3 | "Note that this causes the MLME to respond to the Trigger frame with type set to Location and subtype set to Polling to the specified peer entity." The trigger frame is send by the specified peer entity and the MLME responds on the receipt of the Trigger frame. So, the "set to Polling to the specified peer entity" should be "set to Polling, from the specified peer entity" | as in comment |  |
| 3321 | 32.19 | 6.3.53.2.3. | A consistent format should be used to refer to the subvariants of the Trigger Frames of Ranging variant. While one could consider this as specification aesthetic, consistency renders the specification easy to read, comprehend and implement. | Use the term {Polling|Sounding|Secure Sounding| Report|Passive TB Sounding} subvariant of the Ranging Trigger Frame when referring to the Polling, Sounding, Secure Sounding, Report[ing] and Passive TB Sounding subvariants, in the entire draft. |  |
|  | 33.21 | 6.3.56.3.1 | Contradiction between the text in 6.3.56.3.1 which states that the confirm primitive indicates that the TB or non-TB ranging measurement successfully completed with the peer while 6.3.56.3.3 states that only the sounding exchange (sic) corresponding to the underlying measurement exchange has successfully completed (implies that the reporting phase is still pending). The text in 6.3.56.3.3 is correct (however the use of sounding exchange here is incorrect). | Update the text in 6.3.56.3.1 to be consistent with the statements made corresponding to TB and non-TB Measurement Exchange(s) in Cl. 6.3.56.3.3. |  |
| 3455 | 230.38 | C.3 | MIB attributes with the name "Policy" (or, correctly, "PolicyActive") are to be used for non-signalled settings by an external policy control, per 11-15/0355. The attribute "dot11ISTA2RSTALMRFeedbackPolicy" appears to be a typical "Activated" type of attribute. | Rename "dot11ISTA2RSTALMRFeedbackPolicy" to "dot11ISTA2RSTALMRFeedbackActivated". |  |
| 3456 | C.3 | 231.8 | The MIB attribute "dot11NonTriggerBasedRangingImplemented" is never used in body text. From the description, it appears to be an "...Activated" type of attribute, and should be renamed. But, without any description of usage, it's hard to tell. If there is no description of usage needed, then just delete it. Same thing for "dot11TriggerBasedRangingImplemented". | Delete "dot11NonTriggerBasedRangingImplemented" and "dot11TriggerBasedRangingImplemented" MIB attributes. |  |

**Discussion**:

**Resolution:**

**Revise.**

**TGaz editor make the following changes to D2.4 P.? L.?:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Page/**  **Line** | **Clause** | **Comment** | **Proposed change** | **Resolution** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |