IEEE P802.11
Wireless LANs

|  |
| --- |
| Proposed resolution for miscellaneous comments on 2nd recirculation SA ballot  |
| Date: 2024-07-17 |
| Author: |
| Name | Affiliation | Address | Phone | Email |
| Edward Au | Huawei Technologies | Ottawa, Ontario, Canada |  | edward.ks.au@gmail.com  |

#####

##### This submission present proposed resolutions for the following 6 editorial CIDs:

8034, 8118, 8021, 8161, 8160, 8096

##### The proposed changes are based on REVme D6.0.

##### Revision history:

##### R0 – Initial version

##### R1 – Updated based on the discussion on Monday PM1 meeting (July 15, 2024)

##### R2 – Added proposed resolution for CIDs 8160 and 8096

##### R3 – Updated proposed resolution for CID 8096

##### R4 – Updated based on the discussion on Tuesday PM1 meeting (July 16, 2024)

##### R5 – Updated proposed resolution for CID 8021

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change |
| 8034 |  | 2713 | 15 | This subclause uses “shall set to true or false”; however, the paragraphs that follow say for example, “shall set true to 1” or “field to 1”. Consistent language would improve readability. | As in comment, suggest changing to using numeric values. |

***Discussion:***

As discussed with the commenter offline, the location 2713.15 was referenced from D5.0. In REVme D6.0, the location is from 2718.1 to 2718.18 as shown below:



As referred to clause 3, dot11LOSAssessmentTXImplemented consists of true and false values:



***Proposed resolution for CID 8034:***

Rejected.

As per D6.0, the MIB variable consists of true and false, rather than 1 and 0, respectively.

For the paragraphs at 2718.12 and 2718.15, it has "set to 1" because it refers to setting the value of the LOS Assessment TX Capability subfield to 1.  Therefore, there is nothing to be fixed.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change |
| 8118 | 12.13 |  |  | Sometimes it's "PASN {first|second|third} frame", which is weird. Move the ordinal to be first, before "PASN". Also in "first PASN Authentication frame " and "second PASN Authentication frame " the "Authentication" should be deleted | As it says in the comment |

***Proposed resolution for CID 8118:***

Revised.

At 3172.50, 3173.8, 3173.10, and 3174.61, replace “PASN first frame” with “first PASN frame”.

At 3173.14, 3173.15, 3174.22, 3174.25, and 3174.38, replace “PASN second frame” with “second PASN frame”.

At 3165.60, 3173.19, 3174.48, 3174.50, and 3174.62, replace “PASN third frame” with “third PASN frame”.

At 3166.49, 3170.56, 3171.37, 3171.39, and 3175.7, replace “{first/second/third} PASN authentication frame” with “{first/second/third} PASN frame”.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change |
| 8021 |  | 2719 | 60 | Change "FTMs per burst" to "FTMs Per Burst" to match the field name capitalization elsewhere in the document |  |

***Discussion:***

As referred to the cited text, the description in the cited location refers to the the number of FTMs per burst, rather than the FTMs Per Burst field.



As referred to 9.4.2.166 (FTM Parameters element), the following is the definition of the FTMs Per Burst subfield:



Offline comment from Jonathan Segev:

*The term non-IFTMR is a single occurrence in the entire text. In other places in the text the frame is referred to as “FTM Request frame with Trigger field set to 1” (>10 occurances referring to the trigger frame). Note 1 actually include 2 completely unrelated notes, I’ve taken the 2nd note and made it to an independent note.*

***Proposed resolution for CID 8021:***

Revised.

Change from

“NOTE 1—If the ISTA successfully transmits a non-IFTMR frame late in a burst instance, fewer than FTMs per burst might be successfully transmitted by the RSTA in the burst instance. If a FTM frame, except for the IFTM frame in the ASAP=0 case, is sent outside a burst instance, it might not be acknowledged.”

To

“NOTE 1—If the ISTA successfully transmits an FTM Request frame with Trigger field set to 1 late in a burst instance, fewer than the negotiated TOF measurement (i.e., the value of FTM Per Burst field) might be completed within this burst duration instance.

NOTE 2—If a FTM frame, except for the IFTM frame in the ASAP=0 case, is sent outside a burst instance, it might not be acknowledged.”

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change |
| 8161 | 12 |  |  | SAE-KCK gets used before being expanded. Maybe other -KCK and -KEK too? | As it says in the comment |

***Discussion:***

As per the offline feedback from the commenter, they wrote “SAE-KCK first use 1029.13, definition 3013.24. Ditto TPK-KCK at 2679.46 and 3126.1. TPK-TK OK because in 3.4? Also exactly one reference to PTK-TK, at 2978.14 -- never defined or described”

***Proposed resolution for CID 8161:***

Revised.

At 1029.13, replace “the length of the SAE-KCK and” with “the length of the SAE key confirmation key, SAE-KCK, and”

At 2679.46, replace “The MIC shall be calculated using the TPK-KCK” with “The MIC shall be calculated using the TPK key confirmation key (TPK-KCK)”.

At 2978.14, replace “PTK-TK” with “TK”.

At 2977.60 and 3073.27, replace “temporal key portion of the PTK” with “TK”.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change |
| 8160 |  |  |  | Claus 28 needs to have "EDMG" before "OFDM mode" and "SC mode" | As it says in the comment |

***Proposed resolution for CID 8160:***

Revised.

Replace “OFDM mode” with “EDMG OFDM mode” at the following locations:

4495.48, 4495.50, 4519.50, 4550.32, 4662.47, 4677.54,

Replace “OFDM EDMG A-PPDU” with “EDMG OFDM A-PPDU”:

4536.44

Replace “SC mode” with “EDMG SC mode” at the following locations:

4495.32, 4495.34, 4495.40, 4495.42, 4496.4, 4496.6, 4496.9, 4496.12, 4519.50, 4550.27, 4598.24, 4677.53, 4813.60

Replace “SC mode” with “DMG SC mode” at the following locations:

4521.54, 4692.8

Replace “SC and OFDM mode” with “EDMG SC and OFDM modes” at the following locations:

4495.56, 4495.59, 4495.61, 4496.1, 4692.35, 4693.60

Replace “control, SC, and OFDM mode” with “EDMG control, SC, and OFDM modes” at the following location:

4807.34

Replace “control mode” with “DMG control mode” at the following locations:

4521.50, 4692.8

Replace “control mode” with “EDMG control mode” at the following location:

4693.32

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change |
| 8096 | 27.3.19 |  |  | "HE-LTF User Block" is not, as far as I can tell, the name of a field | Change to "HE-LTF user block" throughout. Similarly change "HE-LTF Repetition Block" to "HE-LTF repetition block" throughout |

***Proposed resolution for CID 8096:***

Revised

Change “HE-LTF User Block” to “HE-LTF user block” at the following locations:

4396.47 (two appearances), 4396.50, 4396.55, 4396.56, 4396.57, 4396.58, 4396.59, 4397.16, 4397.44, 4397.56, 4397.65, 4398.7 (two appearances), 4398.15, 4398.26, 4398.44, 4398.56, 4398.57, 4398.58, 4398.59, 4399.30, 4399.33, 4399.55, 4399.57.

Change “HE-LTF Repetition Block” to “HE-LTF repetition block” at the following locations:

4396.48 (two appearances), 4396.50, 4397.42 (two appearances), 4397.59, 4397.64, 4397.65, 4398.7 (four appearances), 4398.25, 4398.26, 4398.27, 4398.44, 4399.32, 4399.33 (two appearances), 4399.53, 4399.55, 4399.57, 4399.62, 4400.2, 4400.5, 4400.6.

Change “User Block” to “HE-LTF user block” at the following location:

4398.51

Change “Repetition Block” to “HE-LTF repetition block” at the following location:

4410.37