IEEE P802.11
Wireless LANs

|  |
| --- |
| LB249-Clause-28-CID-Resolution |
| Date: 2020-01-11 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Assaf Kasher | Qualcomm |  |  | akasher@qti.qualcomm.com |
|  |  |  |  |  |

Abstract

This document proposes resolutions to LB249 comments on clause 28. The base is TGaz D2.0

The CIDs resolved are: 3079, 3080, 3208, 3081, 3210, 3082, 3089, 3090, 3091, 3092, 3093

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 3079 | 215.00 | 28.3.3.3.2.3 | Issue with new field "First Path AWV TRN" since the table in 11ay already has something similar "First Path Training" but theu have different description | Merge or split or fix in a different way. |  **Reject: The fields have different name and the description clarify that the one currently in 11ay is used for indicating a type of BF training and the new one “First path AWV training” indicates a the AWV used in trnamsiting the TRN field** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 3080 | 215.00 | 28.3.3.3.2.3 | Not sure that 11az is allowed to do what is written on page 215 line 10. Contact NOW Tgay! | CONTACT Tgay!As it is, remove this comment. |  **Revise**: The test shall be removed |
| 3208 | 215.00 | 28.3.3.3.2.3 | "TGay Editor: Remove subclause 28.4 and its subclauses from the draft" - WHAT! - you cant remove EDMG control from the TGAY draft | remove this line |  **Accept** |

***TGaz Editor: remove the lin in P215L10***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 3081 | 216.00 | 28.9.3.2 | The text in first paragraph is duplication of existing text in 11ay and may result in incorrect interpretation since it is incomplete. 11ay includes the full list of rules about what part needs to be in each case. There is absolutly no point in duplication of the rules. | Reference 11ay rules and just add that the TRNs can be the Secure TRNs. | **Reject:** Modifying subclause 28.9.2 to include secure TRN will complicte an already complicated subclause. The differences are significant enough to justify a new subclause with appropriate references to 28.9.2 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 3210 | 216.00 | 28.9.3.1 | "and may be used for secure AOA/AOD measurements" - the structure in table 28-10 does not enable AOD/AOD meausmrentS | remove this text | Accept |

***TGaz Editor: modify the text in P216L15-16 (28.9.3.1) as follows:***

PDMG secure ranging PPDUs are used for secure ToF

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 3082 | 217.00 | 28.9.3.5.1 | Text in first paragraph of 28.9.3.5.1 refers to "Figure 214".1. Why the format of figure numbering is different here?2. There is no figure 214 in the document. | Fix | **Revise see 11-20-0118** |

***TGaz Editor Modify the text in P217L12 (28.9.3.5.1)***

shown in figure (#3082)28-45 (TRN field structure of EDMG BRP-TX PPDUs). (**#1174)** The header fields

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 3089 | 218.00 | 28.9.3.6 | Text in 28.9.3.6 refers to Figure 28-200a. No such figure | Add the figure | **Revise** (200a and 200b were combined to a single figure 200) |
| 3090 | 218.00 | 28.9.3.6 | Text in 28.9.3.6 refers to Figure 28-200b. No such figure | Add the figure | Revise (200a and 200b were combined to a single figure 200)) |

***TGaz Editor Modify the test in P218L8-9 as follows:***

As shown in Figure 28-200, (#3090) each secure TRN subfield shall consist of five consecutive segments:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 3091 | 218.00 | 28.9.3.6 | Text in 28.9.3.6 refers five consecutive "segments", but the following text is not defining what is a "segment". Hence text is not clear | Detail what is a segment | Revise: clarified by formatting see 11-20-0118 |
| 3092 | 218.00 | 28.9.3.6 | Text in 28.9.3.6 refers five consecutive "segments", but the text in 28.9.3.5.1 is defining just 4 TRN subfields (page 217 line 19). How is this possible? Not clear! | Fix the text. | Revised: Add postfix segment see 11-20-0118 |
| 3093 | 218.00 | 28.9.3.6 | Incorrect Reference to 28.105.9.1. No such subclause in 11ay ?!?! | Fix the reference | Revised: see 11-20-0118 |

Discussion: the text is not clear because of formatting and a missing field

***TGaz Editor: Modify the text in P218L10-21 (28.9.3.6) as follows:***

* **GI**: the GIe164×NCB as defined in subclause 28.5.9.1; (#**1175**, #**1176**, #**1177**, #**2374**, #**2357**, #**2376**, #**1307**)
* **Zero prefix**: A prefix of 128\*NCB zero channel symbols;
* **Secure ranging field**: A Secure ranging waveform composed of 384\* NCB -π/2-BPSK modulated channel symbols. The modulated symbols are based on bit sequences of length 384\*NCB which are taken from the binary pseudo-random sequence SECURE\_TRN\_SEQUENCE in the TXVECTOR parameters as defined in Table (#**1010**) (TXVECTOR and RXVECTOR parameters). Each group of 384\*NCB bits is taken consecutively without overlap from the sequence. The constellation mapper maps the sequence of bits to constellation points; see subclause 20.5.3.2.4.2 (#**1087**); (#**1008**, #**1006**, #**1048**, #**1009**) Zero postfix: A postfix of 19 128\*NCB zero channel symbols;
* **Zero postfix**: A prefix of 128\*NCB zero channel symbols; (#3093)
* **GI**: the GIe164\*NCB as defined in subclause 28.5.9.1. (#**1041, #1004**)

**References:**

**P802.11az D2.0**