IEEE P802.11
Wireless LANs

|  |
| --- |
| CC36 CR for clause 36.3.14 Packet extension |
| Date: 2021-07-22 |
| Author(s): |
| Name | Affiliation | Address | Phone | Email |
| Yan Zhang | NXP | 350 Holger Way, San Jose, CA,  |  | yan.zhang\_5@nxp.com |

Abstract: This document contains proposed resolutions for comments in *Clauses 36.3.14* from 11be D1.1 with 2 CID below

|  |  |
| --- | --- |
| ***Clause 36.3.14***7253,7254 |  |
|  |  |
|  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 7253 | 36.3.14 | 552.42 | For clarity, change sentence starting with "A PE field of duration 20 usec ..." into a bullet list. | Change to "sentence starting with "A PE field of duration 20 usec is allowed in the following cases: ...". | **Revised.**Agree with commentor that bullet style provides more clarity. TGbe editor: Incorporate the changes in [https://mentor.ieee.org/802.11/dcn/21/11-21-1267-00-00be-CC36-CR-for-packet-extension.docx](https://mentor.ieee.org/802.11/dcn/21/11-21-xxxx-00-00be-CC36-CR-for-packet-extension.docx) |

be editor: please make changes *in D1.1 clause 36.3.14*

* On P552L42 (CID #7253):

A PE field of duration 0 μs, 4 μs, 8 μs, 12 μs, 16 μs, or 20 μs is present in an EHT PPDU. A PE field of duration 20 μs is only allowed in the following cases:

* an EHT MU PPDU with at least one participating STA being modulated with 4096-QAM
* an EHT MU PPDU with more than eight spatial streams transmitted on at least one‌ﾠRU/MRU
* a 320 MHz EHT MU PPDU if the size of one of the allocated RU or MRU is greater than 2x996
* a 320MHz EHT TB PPDU

A non-AP EHT STA shall support transmission of an EHT TB PPDU with a PE field of duration up to 20 μs, and reception of an EHT MU PPDU with a PE field of duration up to 20 μs.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 7254 | 36.3.14 | 552.50 | "shall not cause significant power leakage outside of the spectrum used by the Data field" and "the spectrum used by the PE field is commensurate with the locations and sizes of the occupied RUs or MRUs in the Data field" sound very similar. Merge to avoid repetition. | See comment | **Revised.**Agree with commentor that the text can be more concise since the latter requirement guarantees the former requirement is satisfied. TGbe editor: Incorporate the changes in [https://mentor.ieee.org/802.11/dcn/21/11-21-1267-00-00be-CC36-CR-for-packet-extension.docx](https://mentor.ieee.org/802.11/dcn/21/11-21-xxxx-00-00be-CC36-CR-for-packet-extension.docx) |

be editor: please make changes *in D1.1 clause 36.3.14*

* On P552L50 (CID #7254):

The PE field, if present, shall be transmitted with the same average power as the Data field. Other than that, its content is arbitrary. In an OFDMA EHT PPDU or punctured non-OFDMA EHT PPDU, the spectrum used by the PE field shall be commensurate with the locations and sizes of the occupied RUs or MRUs in the Data field to minimize power leakage outside of the spectrum used by the Data field. For example, for a 20 MHz OFDMA EHT PPDU, if the occupied RU in the Data field is 106-tone RU, the PE would have a spectrum that is approximately 10 MHz wide.