IEEE P802.11  
Wireless LANs

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| --- | --- | --- | --- | --- |
| Comment Resolution LB253 Parameters – Parameters Part 3 | | | | |
| Date: 2021-01-08 | | | | |
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Abstract

This submission proposes the comment resolution of CIDs related to the Ranging Parrameters Element in LB253, changes are relative to Draft 3.0.

Revisions:

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGax Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGaz Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGaz Editor: Editing instructions preceded by “TGaz Editor” are instructions to the TGaz editor to modify existing material in the TGaz draft. As a result of adopting the changes, the TGaz editor will execute the instructions rather than copy them to the TGaz Draft.***

**The text preceded by “Discussion” is not part of the adopted changes.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
|  |  |  |  |  |  |
| **5454** | 72.17 | 9.4.2.298 | Additional subfields of the Ranging Parameters field are needed to negotiate and indicate the actual use or not of TX FD window for secure LTF for the entire ranging session. | Please add additional subfields of the Ranging Parameters field to negotiate and indicate the actual use or not of TX FD window for secure LTF for the entire ranging session. | **Revised**  Agree in principle.  https://mentor.ieee.org/802.11/dcn/21/11-21-0307-02-00az-comment-resolution-lb253-parameters.docx |
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|  |  |  |  |  |  |

**9.4.2.298 Ranging Parameters element**

TGaz Editor: Modify “Figure 9-788edh—Ranging Parameters field format” on page 73 (line 9) as follows

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0 B1 | B2 B6 | B7 | B8 B13 | B14 15 | B16 B18 | B19 B21 | B22 | B23 |
|  | Status  Indication | Value | I2R LMR Feedback | Format  and Bandwidth | Ranging  Priority | Max R2I STS ≤ 80 MHz | Max R2I  STS > 80 MHz | Immediate R2I  Feedback | Immediate I2R  Feedback |
| Bits: | 2 | 5 | 1 | 6 | 2 | 3 | 3 | 1 | 1 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B24 B26 | B27 B29 | B30 | B31 | B32 B34 | B35 B37 | B38 | B39 |
|  | Max I2R STS ≤ 80 MHz | Max I2R STS > 80 MHz | R2I TOA Type | I2R TOA Type | Max I2R Repetition | Max R2I Repetition | R2I AOA Request | I2R AOA Request |
| Bits: | 3 | 3 | 1 | 1 | 3 | 3 | 1 | 1 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | B40 B41 | B42 B43 | B44 B47 | B49 B55 |
|  | Max R2I LTF Total | Max I2R LTF Total | Reserved | BSS Color Information |
| Bits: | 2 | 2 | 4 | 8 |

1. Figure 9-788edh—Ranging Parameters field format (#1947, #TC707r3)

TGaz Editor: Modify “Figure 9-788edh—Ranging Parameters field format” on page 73 (line 9) as follows

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0 B1 | B2 B6 | B7 | B8 B9 | B10 B11 | B12 | B13 | B14 | B15 |  |
|  | Status  Indication | Value | I2R LMR Feedback | Reserved | Ranging  Priority | R2I TOA Type | I2R TOA Type | R2I AOA Request | I2R AOA Request |  |
| Bits: | 2 | 5 | 1 | 2 | 2 | 1 | 1 | 1 | 1 |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B16 B21 | B22 | B23 | B24 B26 | B27 B29 | B30 | B31 | B32 B34 | B35 B37 |
|  | Format  and Bandwidth | Immediate R2I  Feedback | Immediate I2R  Feedback | Max I2R Repetition | Max R2I Repetition | ~~Device Class~~  Res. | ~~Full Bandwidth UL MU-MIMO~~  Resrved | Max R2I STS ≤ 80 MHz | Max R2I  STS > 80 MHz |
| Bits: | 6 | 1 | 1 | 3 | 3 | 1 | 1 | 3 | 3 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | B38 B39 | B40 B41 | B42 B45 | B45 B47 | B48 B55 |
|  | Max R2I LTF Total | Max I2R LTF Total | Max I2R STS ≤ 80 MHz | Max I2R STS > 80 MHz | BSS Color Information |
| Bits: | 2 | 2 | 3 | 3 | 8 |

1. Figure 9-788edh—Ranging Parameters field format (#1947, #TC707r3)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Subelement ID (1) | | Length | | AID / RSID | | Device Class | | Full Bandwidth UL MU-MIMO | | Trigger Frame Padding Duration | Max Session Exp |
| Bits: | 8 | | 8 | | 16 | | 1 | | 1 | | 2 | 4 |  |
|  |  | | |  | | | |
|  | Passive TB Ranging | Reserved | | | | Availability Window | | | |
| Bits: | 1 | 7 | | | | Variable | | | |

1. Figure 9-788edj—TB Specific subelement format (#1951, #1710)

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Subelement ID (1) | Length | | AID12 | Resrved | | Passive TB Ranging | | Device Class | Full Bandwidth UL MU-MIMO | Trigger Frame Padding Duration |
| Bits: | 8 | 8 | | 12 | 3 | | 1 | | 1 | 1 | 2 |  |
|  |  | |  | | |  | |
|  | Max Session Exp | | Availability Window | | |  | |
| Bits: | 4 | | Variable | | |  | |

1. Figure 9-788edj—TB Specific subelement format (#1951, #1710)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ~~Count~~  Header | Availability Window Information subfield-1 | …. | Availability Window Information subfield-n |
| Octets: | 1 | 4/5 | … | 4/5 |

1. Figure 9-788edd—RSTA Availability Information field format

|  |  |  |
| --- | --- | --- |
|  | B0 B6 | B7 |
|  | Count | Passive TB Ranging Availability Window |
| Bits | 7 | 1 |

1. Figure 9-788XXX—Header subfield format

B0 B15 B16 B22 B23 B24 B31 B32  ~~B39~~

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Partial TSF  Timer | Duration | Reserved | Periodicity | ~~Passive TB Ranging parameters (Optional)~~~~(#~~**~~1646~~**~~)~~ |

Bits: 16 7 1 8 ~~8~~

**Figure 9-788ede—Availability Window Information field format (#1947)**

B0 B15 B16 B22 B23 B24 B31 B32 B39

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Partial TSF  Timer | Duration | Reserved | Periodicity | Passive TB Ranging parameters ~~(Optional)~~(#**1646**) |

Bits: 16 7 1 8 8

**Figure 9-788ede—Passive Availability Window Information field format (#1947)**