IEEE P802.11
Wireless LANs

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| LB272 CR for Threshold-based Reporting – Part 1 |
| Date: 2023.04.23 |
| Author(s): |
| Name | Company | Address | Phone | email |
| Mengshi Hu | Huawei Technologies | F3, Huawei Base, Bantian, Longgang, Shenzhen, Guangdong, China, 518129 |  | humengshi@huawei.com |
| Rui Du |  |  |  |
| Narengerile |  |  |  |
| Zhuqing Tang |  |  |  |
| Yiyan Zhang |  |  |  |

Abstract

This submission contains the proposed comment resolutions of CIDs in 23/0314 LB272 comments and approved resolutions.

14 comments related to the threshold-based reporting are resolved.

Resolved CIDs: 1042, 1380, 1434, 1438, 1439, 1671, 1736, 1740, 1956, 1957, 2002, 2221, 2289, 2290.

Revision Notes

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| R0 | Initial revision |

## CID 1042, 1380, 1439, 1671, 1956, 2002, 2221, 2289, 1740, 1957, 2290

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| CID | Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 1042 | 184.57 | 11.55.1.5.2.6.2 | What is the "Sensing Trigger Frame C"? Is it supposed to be "Sensing Report Trigger frame" based on Figure 11-74h? | Please clarify what "Sensing Trigger Frame C" is. | REVISED.***Instructions to the editor: please make the following changes to Page 184, Line 57 in 802.11bf D1.0:***Change “Sensing Trigger frame C” to “Sensing Reporting Trigger frame”. |
| 1380 | 184.57 | 11.55.1.5.2.6.2 | "Sensing Trigger Frame C" - where did the "C" come from? | delete the "C" | REVISED.***Instructions to the editor: please make the following changes to Page 184, Line 57 in 802.11bf D1.0:***Change “Sensing Trigger frame C” to “Sensing Reporting Trigger frame”. |
| 1439 | 184.58 | 11.55.1.5.2.6.2 | Sensing Trigger Frame C should be Sensing ReportTrigger frame | Change "Sensing Trigger Frame C" into "Sensing Report Trigger frame" | REVISED.***Instructions to the editor: please make the following changes to Page 184, Line 57 in 802.11bf D1.0:***Change “Sensing Trigger frame C” to “Sensing Reporting Trigger frame”. |
| 1671 | 184.57 | 11.55.1.5.2.6.2 | Change 'Sensing Trigger Frame C' to 'Sensing Report Trigger frame' | As in comment | REVISED.***Instructions to the editor: please make the following changes to Page 184, Line 57 in 802.11bf D1.0:***Change “Sensing Trigger frame C” to “Sensing Reporting Trigger frame”. |
| 1956 | 184.57 | 11.55.1.5.2.6.2 | The frame "Sensing Trigger Frame C" is not defined. | Replace with: "Sensing Report Trigger frame". | REVISED.***Instructions to the editor: please make the following changes to Page 184, Line 57 in 802.11bf D1.0:***Change “Sensing Trigger frame C” to “Sensing Reporting Trigger frame”. |
| 2002 | 184.57 | 11.55.1.5.2.6.2 | There is no "Sensing Trigger Frame C" defined. Please replace "Sensing Trigger Frame C" by "Sensing Report Trigger frame". | As in comment | REVISED.***Instructions to the editor: please make the following changes to Page 184, Line 57 in 802.11bf D1.0:***Change “Sensing Trigger frame C” to “Sensing Reporting Trigger frame”. |
| 2221 | 184.57 | 11.55.1.5.2.6.2 | Change the name of Sensing Trigger Frame C. | As in the comment | REVISED.***Instructions to the editor: please make the following changes to Page 184, Line 57 in 802.11bf D1.0:***Change “Sensing Trigger frame C” to “Sensing Reporting Trigger frame”. |
| 2289 | 184.57 | 11.55.1.5.2.6.2 | "Trigger Frame C" not defined | change to "Sensing Report Trigger Frame" | REVISED.***Instructions to the editor: please make the following changes to Page 184, Line 57 in 802.11bf D1.0:***Change “Sensing Trigger frame C” to “Sensing Reporting Trigger frame”. |
| 1740 | 184.51 | 11.55.1.5.2.6.2 | Change the text "Sensing CSI Variation Feedback frame" to | Sensing Measurement Report framesince there's no such frame name. Also change the Figure 11-74h to reflect the frame name | REVISED.Agree with the commenter. To make it clear, that the CSI variation feedback value is included in the Sensing Measurement Report frame is emphasized.***Instructions to the editor:*** **Please make the changes as shown under CID 2290 in 11-23/****0675r0.** |
| 1957 | 184.51 | 11.55.1.5.2.6.2 | The frame "Sensing CSI Variation Feedback" is not defined. This is referenced on line 51, line 59, and Figure 11-74h. | Replace with: "Sensing Measurement Report frame" | REVISED.Agree with the commenter. To make it clear, that the CSI variation feedback value is included in the Sensing Measurement Report frame is emphasized.***Instructions to the editor:*** **Please make the changes as shown under CID 2290 in 11-23/0675r0.** |
| 2290 | 184.51 | 11.55.1.5.2.6.2 | "Sensing CSI Variation Feedback Frame" not found in clause 9 | define the frame | REVISED.This frame is changed into the Measurement Report frame, according to 802.11bf D1.0.***Instructions to the editor:*** **Please make the changes as shown under CID 2290 in 11-23/0675r0.** |

***Instructions to the editor: please make the following changes to Page 184, Line 56 in the subclause 11.55.1.5.2.6.2 Threshold-based reporting phase in D1.0 as shown below:***

In the measurement reporting sub-phase, if the reported CSI variation feedback value is greater than or equal to the CSI variation threshold, the sensing initiator should transmit a Sensing Reporting Trigger frame (#1042, 1380, 1439, 1671, 1956, 2002, 2221, 2289) to the sensing responder SIFS after the reception of theSensing Measurement Report frame where the CSI variation feedback value is included; otherwise, the sensing initiator shall not send a Sensing Reporting Trigger frame to the sensing responder. The sensing responder that provided the CSI variation feedback value greater than or equal to the threshold shall transmit a Sensing Measurement Report frame to the sensing initiator in the assigned RU when triggered by a Sensing Reporting Trigger frame. The sensing responder not receiving the Sensing Reporting Trigger frame in the threshold-based reporting phase shall not send a Sensing Measurement Report frame to the sensing initiator.

## CID 1438

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| CID | Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 1438 | 185.06 | 11.55.1.5.2.6.2 | To be aligned with the text, the CSI variation reporting phase and measurement reporting phase in the figure should be the CSI variation reporting subphase and measurement reporting subphase. | Change the wording "phase" of the CSI variation reporting phase and measurement reporting phase in Figure 11-74h into "subphase". | REVISED.Agree with the commenter. In addition,  |

Discussion (the related text is shown below):



## CID 1736

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| CID | Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 1736 | 184.57 | 11.55.1.5.2.6.2 | Change the text "than or equal to the CSI variation threshold values assigned to them, and triggering the feedbacks from those sensing responder(s)" to | than or equal to the CSI variation threshold values assigned to them in the corresponding Measurement Setup Request frame(s), and then transmit Sensing Report Trigger frame to obtain Sensing Measurement Report frame(s) from those sensing responder(s) | REVISED.Agree with the commenter.***Instructions to the editor:*** **Please make the changes as shown under CID 1736 in 11-23/0675r0.** |

***Instructions to the editor: please make the following changes to Page 183, Line 54 in the subclause 11.55.1.5.2.6.2 Threshold-based reporting phase in D1.0 as shown below:***

**11.55.1.5.2.6.2 Threshold-based reporting phase**

Threshold-based reporting is optional and may be present in a TB sensing measurement exchange in which the sensing responder is in the role of sensing receiver. A sensing initiator may implement the threshold-based reporting for the purpose of finding out the sensing responder(s) with their CSI variation values greater than or equal to the CSI variation threshold values assigned to them in the corresponding Measurement Request frame(s), and then transmit a Sensing Reporting Trigger frame to obtain Sensing Measurement Report frame(s) from those sensing responder(s).

## CID 1434

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| CID | Page.Line | Clause Number | Comment | Proposed Change |
| 1434 | 91.08 | 9.4.1.75.1 | In Table 9-127g, the "CSI variation threshold" should be replace with "CSI variation value". They are two different things. The CSI variation value is the one obtained at the receiver, and the threshold is set by the initiator. The wording "CSI variation value" is also used in the corresponding CR document 11-23-0002r4. | REVISED.Agree with the commenter. The “CSI variation threshold” should be “CSI variation value”***Instructions to the editor:*** **Please make the changes as shown under CID 1434 in 11-23/0675r0.** |

***Instructions to the editor: please make the following changes to Page 91, Line 08 in the subclause 9.4.2.313.5 (EHT PPE Thresholds field) in D3.0 as shown below:***

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| * CSI Variation Feedback subfield(#287)
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| Value | Description |
| Invalid Indication field is set to 0 | Invalid Indication field is set to 1 |
| 0 | 0 ≤ CSI variation value < 0.1 | Invalid CSI variation feedback |
| 1 | 0.1 ≤ CSI variation value < 0.2 |
| 2 | 0.2 ≤ CSI variation value < 0.3 |
| 3 | 0.3 ≤ CSI variation value < 0.4 |
| 4 | 0.4 ≤ CSI variation value < 0.5 |
| 5 | 0.5 ≤ CSI variation value < 0.6 |
| 6 | 0.6 ≤ CSI variation value < 0.7 |
| 7 | 0.7 ≤ CSI variation value < 0.8 |
| 8 | 0.8 ≤ CSI variation value < 0.9 |
| 9 | 0.9 ≤ CSI variation value < 1.0 |
| 10 | CSI variation value = 1 |
| 11-14 | Reserved |
| 15 | Basic reporting (CSI variation feedback is not used) |