IEEE P802.11
Wireless LANs

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| LB272 comments reporting comments resolution |
| Date: 2023.03.xx |
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Abstract

This submission contains the proposed comment resolutions for the CIDs 1647, 2172, 2271, 1161, 1162, 2148, and 1785.

R0: initial document

R1: further modifications

# CID 1647, 2172 and 2271

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| CID | Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 1647 | 105.23 | 9.4.1.75.4 | Due to RSSI fields and Rx\_OP\_Gain\_Index fields in the Sensing Measurement Report field, the last component in the CSI size calculation should be 2\*N\_Rx instead of N\_Rx. | As in comment | Revised TGbf Editor make changes specified in 0478r1.<https://mentor.ieee.org/802.11/dcn/23/11-23-0478-01-00bf-lb272-comments-reporting-comments-resolution.docx> |
| 2172 | 105.23 | 9.4.1.75.4 | In equation 9-5f, there should be two Nrx added to the end of the equation. One for RSSI, one for RF OP gain. Currently, the equation only includes one addition of Nrx. | Add a value of Nrx to the equation 9-5f and modify the corresponding text in the NOTE. | Revised TGbf Editor make changes specified in 0478r1.<https://mentor.ieee.org/802.11/dcn/23/11-23-0478-01-00bf-lb272-comments-reporting-comments-resolution.docx> |
| 2271 | 105.22 | 9.4.1.75.4 | equation (9-5f) should be updated, for example OP\_gain\_index fields are added in the report information | modify the equation taking into account of new fields and padding to the integer number of octets | Revised TGbf Editor make changes specified in 0478r1.<https://mentor.ieee.org/802.11/dcn/23/11-23-0478-01-00bf-lb272-comments-reporting-comments-resolution.docx> |

***Instructions to the editor: please make the following changes to equation (9-5f) in P105L23 in the subclause 9.4.1.75.4 Sensing Measurement Report field in D1.0 as follows:***

$CSI Size= \left⌈1.5×N\_{TX}×N\_{RX}\right⌉+ \frac{N\_{TX}×N\_{RX}×N\_{b}×N\_{sc}}{4}+2×N\_{RX}$ (9-5f)

# CID 1161, 1162, 2148 and 1785

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| CID | Page.Line | Clause Number | Comment | Proposed Change | Resolution |
| 1161 | 189.17 | 11.55.1.5.5 | Replace "The RF/analog Gain Index is defined..." with "If the RX\_OP\_Gain\_Type subfield is set to 10, the RF/Analog Gain Index subfield within the RX\_OP\_Gain\_Index field is defined..." | As noted. | RevisedTGbf Editor make changes specified in 0478r1<https://mentor.ieee.org/802.11/dcn/23/11-23-0478-01-00bf-lb272-comments-reporting-comments-resolution.docx> |
| 1162 | 189.19 | 11.55.1.5.5 | The sentence "Sensing receiver shall set the value 63 (0) for... and the value 3(1) .... The max (min) and max (min)..." must be broken into 2 to eliminate the values between parenthesis. Max and min must also be spelled out. | As noted. | RevisedTGbf Editor make changes specified in 0478r1.<https://mentor.ieee.org/802.11/dcn/23/11-23-0478-01-00bf-lb272-comments-reporting-comments-resolution.docx> |
| 2148 | 189.19 | 11.55.1.5.5 | "Sensing receiver shall set the value 63 (0) for RF/analog Gain Index subfield and the value 3 (1)for Digital Gain Index subfield to indicate the max (min) RF/analog and max (min) Digital gains respectively ..." | To improve readability, split this into two separate sentences, one for minimum and one for maximum requirement. | RevisedTGbf Editor make changes specified in 0478r1.<https://mentor.ieee.org/802.11/dcn/23/11-23-0478-01-00bf-lb272-comments-reporting-comments-resolution.docx> |
| 1785 | 105.01 | 9.4.1.75.4 | It's not clear how to set the RF/Analog gain index and digital gain index. At least adds some guidance how to set these index value | as in the comment | RevisedTGbf Editor make changes specified in 0478r1.<https://mentor.ieee.org/802.11/dcn/23/11-23-0478-01-00bf-lb272-comments-reporting-comments-resolution.docx> |

***Instructions to the editor: please make the following changes to paragraphs from P189L17 to P189L23 in the subclause 11.55.1.5 Indication of receiver operating condition in D1.0 as shown below:***

If the RX\_OP\_Gain\_Type subfield is set to 10, the RF/Analog Gain Index subfield within the RX\_OP\_Gain\_Index field is defined as a mapping index of the gain in analog domain mainly contains the gain of AGC and other components. The Digital Gain Index subfield within the RX\_OP\_Gain\_Index field is defined as a mapping index of the gain in digital domain. A sensing receiver follows the following rules to define RF/analog gain indices and digital gain indices:

* Each 6-bits RF/Analog Gain Index subfield represents an RF/analog gain index from 0 to 63. The RF/analog gain indices shall be set such that they are monotonically increasing with respect to RF/analog gain, a larger RF/analog gain index shall indicate a higher RF/analog gain. Sensing receiver shall set value 63 and 0 for RF/Analog Gain Index subfield to indicate the maximum and minimum RF/analog gains respectively, while the definition of the values in between is implementation specific.
* Each 2-bits Digital Gain Index subfield represents a digital gain index from 1 to 3. The digital gain indices shall be set such that they are monotonically increasing with respect to digital gain, a larger digital gain index shall indicate a higher digital gain. Sensing receiver shall set value 3 and 1 for Digital Gain Index subfield to indicate the maximum and minimum digital gains respectively, while the definition of the values in between is implementation specific.
* If the digital gain is not available, the Digital Gain Index subfield shall be set to 0. In this case, the RF/Analog Gain Index subfield represents a mapping index of RF/analog gain or receiver gain.

# SP

Do you support resolutions to the following CIDs and incorporate the text changes into the latest TGbf draft: 1647, 2172, 2271, 1161, 1162, 2148, and 1785 in 11-23/0478r1?

Y/N/A