IEEE P802.11  
Wireless LANs

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| CID 1718 | | | | |
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Abstract

This document proposes comment resolutions for LB258 CID 1718.

Proposed changes are based on P802.11REVme D1.3.

*Discussion :*

CID 1718 is shown on the next page.

See also 11-22-0990-10-000m-lb258-misc-cids.docx for related RCPI comments.

Proposed Resolution:

* CID 1718 : Revised.

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| --- | --- | --- | --- |
| **CID** | **Clause Number** | **Comment** | **Proposed Change** |
| 1718 | 9.4.2.190 | In the S1G Open-Loop Link Margin Index element it is stated:  "Then the SNR margin over the MCS 10 can  be derived at the STA that receives the frame that contains S1G Open-Loop Link Margin Index based on its  own transmit power Ptx2 and the received RSSI measured for the PPDU containing the S1G Open-Loop  Link Margin Index.  SNR\_Margin = P\_tx2 - delta\_OPLM + RSSI  "  But there is no SAP that provides the RSSI (in any particular units), so this cannot be derived by the MAC | Delete the referenced subclause, and the row at 1049.11 |

*Proposed change: for clause 9.4.2.190*

The S1G Open-Loop Link Margin Index element can be used for open-loop link adaptation and open-loop transmit power control. When a STA receives the Open-loop link Margin index, it can calculate the S1G Open-Loop Link Margin *DOPLM* by using (–128 + *D* × 0.5) dB. Then the SNR margin over the MCS 10 can be derived at the STA that receives the frame that contains S1G Open-Loop Link Margin Index based on its own transmit power *Ptx2* and the received ~~RSSI~~RCPI measured for the PPDU containing the S1G Open-Loop Link Margin Index.

SNRMargin = Ptx2 – ΔOPLM + ~~RSSI~~RCPI

*Proposed change: for clause 23.2.2, Table 23-1*

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| DELTA\_SNR | FORMAT is S1G  and  (CH\_BANDWIDTH is CBW2 or CBW4 or CBW8 or CBW16) | Contains an array of delta SNR values as defined in 9.4.1.51 (MU Exclusive Beamforming Report field) based on the channel measured during the training symbols of the received S1G NDP.  NOTE—In the RXVECTOR this parameter is present only for S1G NDPs for MU sounding. | MU | Y |
| Otherwise | Not present | N | N |
| RCPI |  | Is a measure of the received RF power averaged over all the  receive chains in the STF or LTF fields of a received PPDU.  Refer to 23.3.18.7 for the definition of RCPI. | N | Y |
| SNR |  | Contains an array of measures of the received SNR for each spatial stream. SNR indications of 8 bits are supported. SNR shall be the sum of the decibel values of SNR per tone divided by the number of tones represented in each stream as described in 9.4.1.49 (VHT Compressed Beamforming Report field). | N | Y |

**References:**