**IEEE P802.15**

**Wireless Personal Area Networks**

|  |  |
| --- | --- |
| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | **Proposed resolution of SRM related CID for the LB158** |
| Date Submitted | [22 August, 2019] |
| Source | [Shoichi Kitazawa;Hidetoshi Yokota][Muroran IT, Landis+Gyr][Hokkaido Japan, Tokyo Japan] | Voice: [ ]Fax: [ ]E-mail: [kitazawa@ieee.org,hidetoshi.yokota@landisgyr.com] |
| Re: |  |
| Abstract | [SRM related comment resolution for the P802.15.4-REVd-D03.] |
| Purpose | [] |
| Notice | This document has been prepared to assist the IEEE P802.15. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein. |
| Release | The contributor acknowledges and accepts that this contribution becomes the property of IEEE and may be made publicly available by P802.15. |

**Proposed resolution of SRM related CID for the 802.15.4md D03**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | 132 | Sub-clause | 6.17 | Line | 16 |
| Comment | I suspect this sentence fragment is supposed to be a sub-bullett for the above items but not sure. |
| Proposed Change | Either fix the sentence or make it a sub bullet |

Resolution: Accept

Comment:

Memo: This sentence is sub-bullet in the IEEE 802.15.4s-2018.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | 138 | Sub-clause | 6.17.1.2 | Line | Figure 6-79 |
| Comment | Section 6.17.1.2 Figure 6-79 This figure does not seem to have anything to do with maxTxFailTime. I think this is wrong figure. Replace with correct figure. |
| Proposed Change | As specified in comment |

Resolution: Accept

Comments: D01 Figure 6-79 is a right figure.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | 139 | Sub-clause | 6.17.1.3 | Line | Figure 6-80 |
| Comment | Section 6.17.1.3 Figure 6-80 Figure is bitmap, and is not searchable. |
| Proposed Change | As specified in comment |

Resolution: Accept

Comments: Provide original figure to the Editor.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | 141 | Sub-clause | 6.17.1.4 | Line | Figure 6-81 |
| Comment | Section 6.17.1.4 Figure 6-81 Figure is bitmap, and is not searchable. |
| Proposed Change | As specified in comment |

Resolution: Accept

Comments: Provide original figure to the Editor.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | 142 | Sub-clause | 6.17.1.5 | Line | Figure 6-82 |
| Comment | Section 6.17.1.5 Figure 6-82 Figure is bitmap, and is not searchable. |
| Proposed Change | As specified in comment |

Resolution: Accept

Comments: Provide original figure to the Editor.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | 152 | Sub-clause | 6.17.1.6 | Line | Figure 6-83 |
| Comment | Section 6.17.1.6 Figure 6-83 Figure is bitmap, and is not searchable. |
| Proposed Change | As specified in comment |

Resolution: Accept

Comments: Provide original figure to the Editor.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | 153 | Sub-clause | 6.17.1.7 | Line | Figure 6-84 |
| Comment | Section 6.17.1.7 Figure 6-84 Figure is bitmap, and is not searchable. |
| Proposed Change | As specified in comment |

Resolution: Accept

Comments: Provide original figure to the Editor.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | 162 | Sub-clause | 6.17.2.5 | Line | 11 |
| Comment | "Figure 6-88" There is no Figure 6-88. |
| Proposed Change |  |

Resolution: Revised

Comments: Insert “SRM Information flow with waiting for Acknowledgment” figure as a Figure 6-88.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | 164 | Sub-clause | 6.17.1.9 | Line | Table 6-6 |
| Comment | Section 6.17.1.9 Table 6-6 The last line says "?55 < IPI", but I think it is supposed to say "IPI > -55". |
| Proposed Change | As specified in comment |

Resolution:

Comments:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | 172 | Sub-clause | 6.17.2.3 | Line | Figure 6-85 |
| Comment | Section 6.17.2.3 Figure 6-85 The figure has some font issues, where dashes go over the E of the MLME etc. It also has some arrows in red, and some text is in red too without any reason for color. Fix the figure. |
| Proposed Change | As specified in comment |

Resolution: Accept

Comments: Provide revised figure to the Editor.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | 173 | Sub-clause | 6.17.2.3 | Line | Figure 6-86 |
| Comment | Section 6.17.2.3 Figure 6-86 The figure has some font issues, where dashes go over the E of the MLME etc. It also has some arrows in red, and some text is in red too without any reason for color. Fix the figure. |
| Proposed Change | As specified in comment |

Resolution: Accept

Comments: Provide revised figure to the Editor.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | 174 | Sub-clause | 6.17.2.4 | Line | Figure 6-87 |
| Comment | Section 6.17.2.4 line 7 The figure 6-87 is missing, as the current Figure 6-87 should really be 6-88 as it is about SRM Infrmation Notification, not about SRM Report. Add the missing figure. |
| Proposed Change | As specified in comment |

Resolution: Accept

Comments: D01 has right figure in Section 6.17.2.4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | 177 | Sub-clause | 6.17.2.5 | Line | Figure 6-87 |
| Comment | Section 6.17.2.5 Figure 6-87 The figure does not need to have "(AckedConfirm=TRUE/FALSE)" text at all, as that parameter does not affect the resulting flow chart. This figure also has some font issues iwth MLME-SRM-INFORMATION parts. Remove the "(AckedConfirm=TRUE/FALSE)" and fix fonts. Also this is really a figure 6-88, and figure 6-87 is missing. |
| Proposed Change | As specified in comment |

Resolution: Accept

Comments: Provide revised figure to the Editor.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | 194 | Sub-clause | 7.4.2.17 | Line | Figure 7-46 |
| Comment | Section 7.4.2.17 Figure 7-46 The figure is in bitmap form and is not searchable. Convert to proper figure. |
| Proposed Change | As specified in comment |

Resolution: Accept

Comments: Provide original figure to the Editor.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | 217 | Sub-clause | 7.5.26 | Line | 21, 26 |
| Comment | "Figure 7-141" underline with no link."Figure 7-142" underline and there is no "Figure 7-142" at link page. |
| Proposed Change |  |

Resolution: Accepted

Comments: Cross reference issue will be fixed generation of next version draft.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | 218 | Sub-clause | 7.5.26 | Line | Figure 7-141 |
| Comment | Section 7.5.26 Figure 7-141 Figure is missing header at all. Add "Figure 7-141 -- SRM Request command Content field Format" for the figure heading. |
| Proposed Change | As specified in comment |

Resolution: Accept

Comments:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | 230 | Sub-clause | 7.5.26 | Line | Figure 7-141 |
| Comment | Section 7.5.26 Figure 7-141 Figure heading is above figure, when it should be below it. Move the heading to correct place. Also this should be figure 7-142, as Figure 7-141 should be the SRM Request command Content field figure, which does not have heading. |
| Proposed Change | As specified in comment |

Resolution:

Comments:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | 232 | Sub-clause | 7.5.26 | Line | Table 7-96 |
| Comment | Section 7.5.26 line 9 There is no Table 7-96, Fix the reference, or add the table. |
| Proposed Change | As specified in comment |

Resolution:

Comments:

# 29 August

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | 75 | Sub-clause | 5.7.7 | Line | 18 |
| Comment | Document says: "Full measurement: the device conducts the measurement for a specified duration of time regardless of the channel." This statement is strange and liekly incomplete. |
| Proposed Change | The TSCH MAC allows the devices to stay in a channel for a defined period of time. If the duration of time for this request is bigger than the slot duration then the channel must change: what is supposed to happen to this request? Should it continue on the same channel or to jump to and through the channels according to the TSCH scheme? If it stays on the same channel, what is being measured? If it jumps, what is the meaning and value of the measurement? The document could say: "Full measurement: the device conducts the measurement for a specified duration of time follwing the channel sequence as necessary" or some more explicit statement |

Resolution: Change the statement as follows:

Full measurement: the device conducts the measurement for a specified duration of time following the channel sequence as necessary.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CID | 160 | Sub-clause | 6.17.1.8 | Line | Table 8-108 |
| Comment | Section 6.17.1.8 line 16 The text here says values are 0x00 and 0xff as shown in Table 8-108 and Table 8-108 for macRssi refers back to here in 6.17.1.8. I.e., what does the actual value 0x00 or 0xff mean? Add text explaining what the values actually mean. |
| Proposed Change | As specified in comment |

Resolution:

[Current]

Subclause 6.17.1.8, Page 168, lines 14-17,

RSSI is a measure of the RF power received as described below. The RF power level at the input of the transceiver measured during the PHR and is valid after the SFD is detected. The minimum and maximum values are 0x00 and 0xff as shown in Table 8-108 and the values in between should be uniformly distributed.

Subclause 8.4.2.9, Page 413, line 1,

**Table 8-108 SRM Specific MAC PIB attributes**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| macRssi | Integer | 0x00-0xff | The RF power level at the input of the transceiver. Refer to 6.17.1.8. | - |

[Changed]

RSSI is a measure of the RF power in dBm for the received packet. The RF power level at the input of the transceiver measured during the PHR and is valid after the SFD is detected. RSSI is represented as two octets of signed integer as shown in Table 8-108; therefore, the minimum and maximum values are -128dBm and 127dBm, respectively. If any measured value less than -128dBm is round up to -128dBm.

**Table 8-108 SRM Specific MAC PIB attributes**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| macRssi | Signed Integer | 0x00-0xff | The RF power level at the input of the transceiver. Refer to 6.17.1.8. | - |