**IEEE P802.15**

**Wireless Specialty Networks**

|  |  |  |
| --- | --- | --- |
| Project | IEEE P802.15 Working Group for Wireless Specialty Networks (WSNs) | |
| Title | LB213 Comment Resolutions – easy ones (low hanging fruit) | |
| Date Submitted | 03-April-2025 | |
| Source | [Benjamin A. Rolfe] [Blind Creek Associates] | E-mail: [ben.rolfe @ ieee.org ] |
| Re: | Comments: 220 646 342 346 230 352 285 286 125 158 377 378 379 372 305 383 494 182 496 498 187 188 189 190 183 184 267 268 517 518 303 521 522 240 46 | |
| Abstract | Some that look to have obvious resolutions | |
| Purpose | Resolve comments | |
| 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. | |

# Easy Ones

## Propose ACCEPT

Comments: 220 646 342 346 230 352 285 286 125 158 377 378 379 372 305 383 494 182 496 498 187 188 189 190 183 184 267 268 517 518 303 521 522

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Index** | **Page** | | **Sub-clause** | **Line #** | | **Comment** | **Proposed Change** |
| 220 | 213 | 16.1 | | | 21 | the right section is 16.8.1 | change to 16.8.1 |
| 646 | 213 | 16.1 | | | 21 | The reference to 16.8 on this line should be 16.8.1, While editorial in nature, this is a technical change to the meaning of the specification. | change "16.8" to "16.8.1" |
| 342 | 37 | 10.21.6.1.2 | | | 29 | For the controlee/controller association, the MLME-ASSOCIATE.request needs to provide the address of the controller device. The CoordAddrMode, CoordPanId, and CoordAddress can be reused for this. But this reuse should be indicated in the text. | Add Table 10-104 rows from base standard to show the necessary edits, i.e., to change "coordinator" to "coordinator/controller" in the descriptions of CoordAddrMode and CoordAddress parameters. |
| 346 | 39 | 10.21.6.1.3 | | | 1 | ControllerCapabilityInformation for MLME-ASSOCIATE.indication (in Table 10-105) says it is a bitmap as defined in 10.41.4.1, which I think would be clearer if it was actually referring to the bitmap format figure it was meaning. I think it should be a bitmap containing the field in Figure 187. The clause reference on its own does not suffice. | Refer to Figure 187 directly, and add to its description that as well as being a field in the over the air message that is it also the format of the capability information bitmap parameter of the MLME-ASSOCIATE.indication |
| 230 | 42 | 10.29.6.6 | | | 12 | It seems that this chart only applies to non-iterleaved mode. | Change line 12 to: "The non-interleaved MMS UWB ranging packets specified for the HRP-ARDEV in 16.2.11, can be used for DS-TWR with message sequence as per Figure 3." |
| 352 | 45 | 10.32.1 | | | 15 | Use of "IEs such as" in the definition of the RCM makes it a vague definition open to misinterpretation. RCM previously had a very specific meaning. We should delete the 3 words to leave a clear specification of which IEs have to be present in order for the frame to be considered an RCM. | Delete: "IEs such as ". |
| 285 | 46 | 10.32.2 | | | 15 | " it may be advantageous" is an informative statement, not an optional requirement. This is stating a possiblity, not quite a recommendation. The correct word is "can". | Chante "may" to "can" |
| 286 | 46 | 10.32.2 | | | 18 | " it may be advantageous" is an informative statement, not an optional requirement. This is stating a possiblity, not quite a recommendation. The correct word is "can". | Chante "may" to "can" |
| 125 | 49 | 10.32.3.5 | | | 2 | Figure 6' is not cited in the text. | Citation of Figure 6 can be added at the end of Line 28 of Page 48 like 'as shown in Figure 6'. |
| 158 | 52 | 10.32.8.2 | | | 5 | MLME-SET.request instead of MLME-STS.request | change to MLME-SET.request |
| 377 | 61 | 10.32.9.12 | | | 1.1 | Table 9 row 1 is incorrectly talking about the "Ranging Block Description List Length field" when I believe it should be talking about the Ranging Block Duration field | In first row of Table 9 (below headings) description of Ranging Block Duration Units field value zero, change "Size of Ranging Block Description List Length field is one octet, and the Ranging Block Description List field units are in numbers of ranging rounds" to "The size of the Ranging Block Duration field is one octet and its units are ranging rounds" |
| 378 | 61 | 10.32.9.12 | | | 1.2 | Table 9 row 2 is incorrectly talking about the "Ranging Block Description List Length field" when I believe it should be talking about the Ranging Block Duration field | Change description of Ranging Block Duration Units field value of one to: "The size of the Ranging Block Duration field is two octets and its units are ranging slots" |
| 379 | 61 | 10.32.9.12 | | | 1.2 | Table 9 row 3 is incorrectly talking about the "Ranging Block Description List Length field" when I believe it should be talking about the Ranging Block Duration field | Change description of Ranging Block Duration Units field value of two to: "The size of the Ranging Block Duration field is three octets and its units are RSTU" |
| 372 | 53 | 10.32.9.3 | | | 17 | The statement "In the case of hyper block mode, only the least significant 8 bits are used to specify the block index." Could be a little more clear, if it instead quotes the allowed value range as per the proposed change. | Change the sentence to say, "In hyper block mode, the Round Index field is used to specify the block index, and this shall be limited to the range 0 to 255. When not in hyper block mode the full 16-bit field allows for a round index range of 0 to 65535." |
| 305 | 64 | 10.39.1 | | | 1 | clause 0 should be clause 16 | as in the comment |
| 383 | 64 | 10.39.1 | | | 3 | This says "… and, where O-QPSK PHY shares a common clock source with the UWB PHY, …" however elsewhere the standard says that the O-QPSK PHY for NBA "shall be derived from the same clock reference as the UWB PHY", so there is no need to say have this "where phase since it has to have a common clock source" | Delete: ", where O-QPSK PHY shares a common clock source with the UWB PHY". |
| 494 | 95 | 10.39.11.1.2.1 | | | 29 | Especially as line 39 says the generartion of RPA prand is out of scope of this standard, to avoid the distinction of NHL or MAC and whether "shall" is approptiate we should change the language used here. | Change "shall use" to "uses", and on next line "shall communicate" to "communicates" |
| 182 | 95 | 10.39.11.1.2.1 | | | 37 | Higher layer methods may be used to synchronize generation and application of RPA prand values between the initiator and the responder. The method to set or update the RPA PRand is missing. The Higher layer can set or update the RPA Prand PIB with MLME-SET.request primitive in the macIrkDescriptorElement for the associated macIrkEntry IRK stored. | add at the end of the paragraph the following text "The Higher layer can set or update the RPA Prand PIB with MLME-SET.request primitive in the macIrkDescriptorElement for the associated macIrkEntry IRK stored." |
| 496 | 96 | 10.39.11.1.2.2 | | | 16 | This sub-clause contains 5 shall statements, which would be bettter changed avoid the distinction of NHL or MAC. Especially I don't think we want to specify MAC mechanisms to generate random numbers, or keep track of what the NHL is doing in the protocol potentially over multiple sessions in parallel. | change "shall use" to "uses", and "shall be" to "is", and delete the sentence on line 27. |
| 498 | 96 | 10.39.11.1.2.2 | | | 27 | This "shall be able" seems a little strange. It is the NHL that uses MCPS-DATA.request to send the Acquisition Compact frame and provide this address, so it is in control of this. This sentence is not needed. | Delete the sentence on line 27. |
| 187 | 108 | 10.39.11.1.3.14 | | | 4 | The Management PHY configuration field can also be included in the message content field of the compact frame | add "or in the message content field of the compact frame" |
| 188 | 108 | 10.39.11.1.3.14 | | | 7 | The Management MAC configuration field can also be included in the message content field of the compact frame | add "or in the message content field of the compact frame" |
| 189 | 108 | 10.39.11.1.3.14 | | | 10 | The Ranging PHY configuration field can also be included in the message content field of the compact frame | add "or in the message content field of the compact frame" |
| 190 | 108 | 10.39.11.1.3.14 | | | 13 | The MMS Number of Fragments field can also be included in the message content field of the compact frame | add "or in the message content field of the compact frame" |
| 183 | 99 | 10.39.11.1.3.4 | | | 3 | add "bits: in Figure 60 | add "Bits:" in the upper left corner |
| 184 | 99 | 10.39.11.1.3.4 | | | 11 | add "bits: in Figure 61 | add "Bits:" in the upper left corner |
| 267 | Technical | 105 | | | 10.39.11.1.3.9 | 7 | The minimum value for macMmsRcpPollNSlots can be 0 |
| 268 | 10.39.11.1.3.9 | 10 | | | The minimum value for macMmsRcpRespNSlots can be 0 | change the range from 1 - 15 to 0 - 15 | 10.39.11.1.3.9 |
| 517 | 105 | 10.39.11.1.3.9 | | | 11 | encodes the duration of macMmsRpDuration | change to "encodes the ranging phase duration" |
| 518 | 105 | 10.39.11.1.3.9 | | | 11 | encodes the duration of macMms1stReportNSlots | change to "encodes the duration of the first reporting period of the reporting phase" |
| 303 | 105 | 10.39.11.1.3.9 | | | 22 | MrpThirdSlots is not used by "either the initiator or the responder" for transmission based on Figure 50 | change to initiator |
| 521 | 105 | 10.39.11.1.3.9 | | | 22 | encodes the duration of macMms3rdReportNSlots | change to "encodes the duration of the third reporting period of the reporting phase" |
| 522 | 105 | 10.39.11.1.3.9 | | | 22 | encodes the value of macMmsNonInterleavedMode | change to "encodes the interleaving mode to be used " |
|  |  |  | | |  |  |  |

Proposed resolution: Accept

## Propose Revised

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Index** | **Page** | **Sub-clause** | **Line #** | **Comment** | **Proposed Change** |
| **240** | 102 | 10.39.11.1.3.7 | 2 | Replace "SYNC & SHR" with "SYNC and SFD", or "SHR" | In the first row of Table 13, replace "SYNC & SHR" with "SYNC and SFD", or "SHR" |

Proposed resolution: Revised

Disposition Detail: Change “SYNC & SHR” to “SHR”.

## Proposed Rejected

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Index** | **Page** | | **Sub-clause** | | **Line #** | **Comment** | **Proposed Change** |
| 46 | | 13 | 2 | 14 | | I do not think we need IETF RFC 1951 DEFLATE as normative reference. | Move this to bibliography. |

Proposed resolution: Rejected

Disposition Detail: In 10.40.4.5.2 Sensing report compression, RFC 1951 is properly cited in normative text: When compression is used it shall be applied using the DEFLATE compressed data format described in IETF RFC 1951.