**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **Proposed Resolution for Discovery** | |
| Date Submitted | Oct 2024 | |
| Sources | Kangjin Yoon (Spark Microsystems)  Yoons.2k15@gmail.com |  |
| Re: |  | |
| Abstract |  | |
| Purpose | To propose resolution for “P802.15.4ab™/D01 Draft Standard for Low-Rate Wireless Networks” | |
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| **Name** | **Index#** | **Pg** | **Sub-Clause** | **Ln** | **Comment** | **Proposed Change** | **Disposition** |
| Billy Verso | 1261 | 162 | 10.40.3 | 9 | In the sentence "may be sent in any unscheduled slot in the round slot in the round" would "unoccupied" be a better word than "unscheduled" | Change "unscheduled" to "unoccupied". | Revise |
| Disposition details:  Change “unscheduled” to “unallocated” in line 9 | | | | | | | |
| Billy Verso | 1262 | 162 | 10.40.3 | 9 | UWB reception is expensive, so the initiator device is unlikely to have its receiver on in any slot that it is not expecting a packet. Better to develop a protocol, with a slot dedicated to association, and perhaps that association scheme would be better being defined in the higher layer protocol and not in 4ab. | Consider modification / deletion of this mode of association, to address this issue or explain what the initiator should be doing for an energy efficient scheme. | Reject |
| Disposition details:  There is another option of specifying and using Contention slots. If the Contention Slots Info field exists in the AC IE, receiver may monitor the contention slots only to save energy.  And when the number of unscheduled slots is not big, it would be better not to have Contention Slots Info field in AC IE to reduce the size of the AC IE and use all unscheduled slots. | | | | | | | |
| Billy Verso | 1263 | 163 | 10.40.3 | 2 | This figure (Figure 178) is not referenced in the text, if it is not referenced then it is probably not needed? | Either delete the figure, or write some text to refer to it and explain what it is showing, (and perhaps the figure caption could be shortened, if the descriptive text is carrying the same info) | Revise |
| Disposition details:  Add "Figure 178 shows the example of frame exchange when the block contains a single ranging round." at the end of the line 20 of the page 162.  Change the title of Figure 178 to from "Example of frame exchange for HRP UWB association when the block contains a single ranging round" to "Example of frame exchange for HRP UWB association" | | | | | | | |
| Billy Verso | 1264 | 163 | 10.40.4.1 | 5 | I think this is wrongly named HRP UWB association command suggest a more application (rather than PHY) related name, like perhaps "ranging controller association". HRP can associate to a normal 15.4 PAN coordinator, and no reason why other phy may not use this scheme in a ranging/slotted network, | Rename to "ranging controller association" | Revise |
| Disposition details:  We agreed to change to “controller association” in comment #1028.  Change “HRP UWB association” to “controller association”. | | | | | | | |
| Tero Kivinen | 744 | 163 | 10.40.4.1 | 21 | Where does the device wanting to send association request get this session id? | is this Session Id same as AC IE, if so add reference to there. | Revise |
| Disposition details:  Add "Controlees can learn the Session ID by observing the AC IE." at the end of line 21. | | | | | | | |
| Billy Verso | 1265 | 164 | 10.40.4.2 | 17 | I think this is wrongly stated since we cannot know what the remote controlee is trying to do. And the SHALL here is dependent on next higher layer activity. | Change to: "This command shall be sent as a result of the MLME-ASSOCIATE.response primitive being issued by the next higher layer. | Revise |
| Disposition details:  Change "shall be sent" to "shall only be sent" in the first paragraph of 10.40.1, 10.40.2.  This line does not mean the controller should send response command always. What this line says is that the response command should not be sent by a controlee. | | | | | | | |
| Tero Kivinen | 756 | 166 | 10.40.4.2 | 3 | There is no macHrpUwbAifsPeriod pib variable. | Fix it to macEmdevImmAckAifsPeriod, | Accept |
| Disposition details:  Simple error | | | | | | | |