**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 CIDs : 969, 970, 972, 1380** | |
| Date Submitted | March 2025 | |
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| Re: |  | |
| Abstract |  | |
| Purpose | To propose resolution for “P802.15.4ab™/D01 Draft Standard for Low-Rate Wireless Networks” | |
| Notice | This document does not represent the agreed views of the IEEE 802.15 Working Group or IEEE 802.15.4ab Task Group. It represents only the views of the participants listed in the “Sources” field above.It is offered as a basis for discussion and is not binding on the contributing individuals. The material in this document is subject to change in form and content after further study. The contributors reserve the right to add, amend or withdraw material contained herein. | |

Revision 0 : Resolving the following CIDs, which are revised based on commenter’s feedback

(Totally 4) : 969, 970, 972, 1380

# CID 969, 970, 1380 (*Revised*, Comments for Figure 190)

The CIDs are commonly talking about Figure 190. So they are covered together.

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| **Name** | **Index #** | **Page** | **Sub-clause** | **Line #** | **Comment** | **Proposed Change** | **Proposed**  **Resolution** |
| Carlos Aldana | 969 | 173 | 10.43.3.1 | 23 | 4 octets are assigned to the "Transmission Offset" field. This results in ~1 hour time offset from the time the NB Allocation packet is sent. This seems excessive. Consider reducing the number of octets or increasing the units of the field to something much greater than a RSTU (e.g., 1 ms) | As in comment | Change Figure 190, Table 55, and the related texts to the revisions in the Disposition Details |
| **Disposition Detail**    The comment is correct. NB Allocation IE is used to deliver how the NB channels are assigned to each responder. Transmission offset is the information indicating when actual NB packets are expected to be sent through NB channel since the NB Allocation IE is received.  If we assign 4 octets to “Transmission Offset”, it can express ~1 hour offset in maximum, which looks to be generally unusual. So, the number of octets is reduced to 2 octets as suggested. The actual text change will be shown below. | | | | | | | |
| Carlos Aldana | 970 | 173 | 10.43.3.1 | 23 | 1 octet allocation to "NB PHY" field can be reduced to 3 bits. More importantly, what happens if the content of the field is 0? Does the value "0" mean 250kbps or is the value undefined since Table 58 starts with Config value of 1. Please clarify. | As in comment | Change Figure 190, Table 55, and the related texts to the revisions in the Disposition Details |
| **Disposition Detail**    The comment is right. In section “10.38.9.3.17 The Management PHY Configuration field”, the number of PHY configurations are eight so we need just 3 bits so to distinguish that. Therefore, we assigned only 3 bits to ‘NB PHY’ field as commented.  In addition to that, so to be clear, we can do mapping between “NB PHY field content” and “Configuration Value of Table 58” as below. The actual text change will be also shown in the later part of this box.    **7**  **6**  **5**  **4**  **3**  **2**  **1**  **0**  NB PHY  . | | | | | | | |
| Pooria Pakrooh | 1380 | 173 | 10.43.3.1 | 23 | If this is a unicast message, why does it inclue address in the IE? | Clarify the question in the comment. | Change Figure 190, Table 55, and the related texts to the revisions in the Disposition Details |
| **Disposition Detail**    The question was “If this is a unicast message, why does it include address in the IE?”  The answer is “NB Allocation IE is used by an initiator to send the NB resource allocation information to a responder. In other words, information about ‘which specific responder is assigned with which NB channel’ is carried through NB Allocation IE. As NB Allocation IE itself is delivered over UWB channel, the address field is required to distinguish each responder within a channel.”  We think 2/3/8 octet assignment is too excessive, so we reduced possible values as 0 or 3 octets only.  The actual text change will be shown below. | | | | | | | |

***Change Figure 190, Table 55 and the related texts as follows.***

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| **10.43.3.1 NB Allocation IE**  …  ***Change sub-clause 10.43.3.1 P173L23 as below;***   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Bits : 0-1 | 2-7 | Octets : 0/3 | 1 | 1 | **~~2~~** | | Address Size | Reserved | Address | NB Channel | NB PHY | Transmission Offset |   **Figure 190—NB Allocation IE Content field format**  …  ***Change sub-clause 10.43.3.1 P174L3 as below;***  **Table 55—Values of Address Size field in NB Allocation IE**   |  |  | | --- | --- | | **Address Size Field Value** | **Address Field Size** | | **0** | **Address Field is not present** | | 1 | 3 Octets | | **2-3** | **Reserved** |   …  ***Change sub-clause 10.43.3.1 P174L8 as below;***  The NB PHY field specifies the NB PHY configuration index. The NB PHY field value shall be one of the  Config number values from Table 58. The NB PHY field specifies the PHY layer modulation for the NB channel. NB PHY field values 0 to 7 select a modulation mode from Table 58 (also numbered 1 to 8). All other NB PHY values are reserved. |

# CID 972 (*Accepted*)

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| **Name** | **Index #** | **Page** | **Sub-clause** | **Line #** | **Comment** | **Proposed Change** | **Disposition Detail** |
| Carlos Aldana | 972 | 173 | 10.43.3 | 19 | There is text missing associated with this section. Either remove section or add text. | As in comment | Accepted |
| **Disposition Detail for 972**  As comment says if we see corresponding clause ‘10.43.3 Nested IEs for UWB data offload to narrowband’, it has just only one sub-clause ’10.43.3.1 NB Allocation IE’. Either leaving it as is considering future use or removing section title, I have no strong preference. If adopting suggested change by removing unnecessary clause number and title, it can be as below;    ***Change sub-clause 10.43.3 P173L19 as below;***  19  20 **10.43.3 NB Allocation IE**  21 The NB Allocation IE is used by an initiator to send the NB resource allocation information to a responder  22 (in a unicast frame). The content field of the NB Allocation IE shall be formatted as shown in Figure 190. | | | | | | | |