**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 Comments Resolution for 15.4ab D1.0 NB Channel Map Comments: Part 2** | |
| Date Submitted | January 2025 | |
| Sources | Pooria Pakrooh (Qualcomm) |  |
| Abstract | Resolution to comments: 116, 127, 128, 240, 528, 529, 1361 | |
| Purpose | To propose comments resolution for “P802.15.4ab™/D (pre-ballot) C 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. | |
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***Comment Index #240 in 15-24-0371-13-04ab-consolidated-comments\_draft\_1.0***

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| **CID** | **Commenter** | **Sub-Clause** | **Page** | **Line** | **Comment** | **Proposed Change** |
| 240 | Li-Hsiang Sun | 10.38.9.3.9 | 83 | 25 | y = x × NB\_channel\_step + NB\_channel\_start, but the NB\_channel\_start=0~7 | change to "y = x × NB\_channel\_step + NB\_channel\_start +50" |

**Discussion:** NB higher channel map field should point to channels in UNII-5.

**Resolution: Accepted**

***Comment Indices #116, 127 and 128 in 15-24-0371-13-04ab-consolidated-comments\_draft\_1.0***

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| **CID** | **Commenter** | **Sub-Clause** | **Page** | **Line** | **Comment** | **Proposed Change** |
| 116 | Rojan Chitrakar | 10.38.9.5 | 94 | 1 | NB channel Map field is 6 octets long, either the field here should be renamed to a different name or the 6-octet bitmap should be called something else (e.g., Full NB Channel Map). | As in comment |
| 127 | Rojan Chitrakar | 10.38.9.7 | 98 | 1 | NB channel Map field is 6 octets long, either the field here should be renamed to a different name or the 6-octet bitmap should be called something else (e.g., Full NB Channel Map). | As in comment |
| 128 | Rojan Chitrakar | 10.38.9.7 | 98 | 6 | Only the 6 octet version the NB channel Map field (10.38.9.3.7) is referenced. | Add the other versions of the NB channel Map field. |

**Discussion:** Agree with the comment. All three versions need to be referenced. Also, I agree that a better term is needed to distinguish “NB Channel Map” from “NB Lower Channel Map” and “NB Higher Channel Map”.

**Resolution: Revised**

**Notes to the Editor:**

1. Change page 98 line 6 as follows:

“The NB Channel Map field if present shall be set as per 10.38.9.3.7 to represent the 6-byte NB Full Channel Map, or it shall be set as per 10.38.9.3.8 to represent 2-byte of NB Lower Channel Map, or as per 10.38.9.3.9 to represent the 5-byte NB Higher Channel Map “

1. Page 81, line 14. change “NB Channel Map” to “NB Full Channel Map”.
2. Page 82 line 26, change “NB Channel Map” to “NB Lower Channel Map”
3. Page 83, line 16, change “NB Channel Map” to “NB Higher Channel Map”

***Comment Index #1361 in 15-24-0371-13-04ab-consolidated-comments\_draft\_1.0***

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| **CID** | **Commenter** | **Sub-Clause** | **Page** | **Line** | **Comment** | **Proposed Change** |
| 1361 | Pooria Pakrooh | 10.38.9.3.13 | 87 | 11 | The requested channel map could be Lower/Upper or both. | Dedicate 2 bits for "NB Channel Map requested" and explain the mapping. |

**Discussion:** All three versions of channel map need to be reflected in the request bitmap field.

**Resolution: Revised**

**Notes to the Editor:**

1. Change Figure 55 as below

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| --- | --- | --- | --- | --- | --- |
| Bits: 0-1 | 2 | 3 | 4 | 5 | 6-7 |
| NB Channel Map requested | Management PHY Config requested | Management MAC Config requested | Ranging PHY Config requested | Ranging MAC Config requested | reserved |

1. Change page 87, lines 12-13 as below:

“The NB Channel Map requested field when set to 0, indicates that NB channel map is not requested. when set to 1 indicates that the NB Full Channel Map field is requested, when set to 2 indicates that the NB Lower Channel Map is requested, and when set to2 indicates NB Higher Channel Map Is requested to be included in the response Compact frame.”

***Comment Indices #528 and #529 in 15-24-0371-13-04ab-consolidated-comments\_draft\_1.0***

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| **CID** | **Commenter** | **Sub-Clause** | **Page** | **Line** | **Comment** | **Proposed Change** |
| 528 | Tero Kivinen | 10.38.9.3.24 | 90 | 7 | Make a new table that maps the NB Channel Map Present field to type of the NB Channel Map and use it. | Add new table that maps 0 = none, 1 = NB lower Channel Map, 2 = NB Higher Channel Map and 3 = NB Channel Map with references to suitable section. |
| 529 | Tero Kivinen | 10.38.9.3.24 | 90 | 3 | The NB Channel Map Present is bad name, as it does not only indicate whether NB Channel Map is present, it also indicates the type of it. | Change NB Channel Map Present field to NB Channel Map Type field. |

**Discussion:** The proposal in CID 528 is addressed by the descriptions in lines 6-10. However, lines 5-6 are redundant and should be removed.

For CID 529, this field indicates whether one of the three types of channel map is present. When set to 0 it shows the absence of NB channel maps in its different variations.

**Resolution:**

**CID 528: Revised**

**CID 529: Rejected**

**Notes to the Editor:**

1. Remove lines 6-10 of page 90.