**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 Comments #998** | |
| Date Submitted | February 13, 2025 | |
| Sources | Carlos Aldana (Meta) |  |
| Re: |  | |
| Abstract |  | |
| Purpose | To propose resolution to comment with CID #988 for “P802.15.4ab™/Draft 1.0 Standard for Low-Rate Wireless Networks” | |
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***Comment Index #998***

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| --- | --- | --- | --- | --- | --- | --- |
| 998 | Technical | 81 | 10.38.9.3.7 | 18 | To simplify design, there should be a way to signal the end of the NB channel map. Please add a field to Figure 49 to signal NB channel end. | As in comment |

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| --- | --- | --- | --- | --- | --- | --- |
| Bits: 0–3 | 4–9 | 10–17 | 18–41 | 42–44 | 45–46 | 47 |
| NB channels 0–3 | WLAN channel bitmask  (UNII-3) | NB channels 50–57 | WLAN channel bitmask  (UNII-5) | NB channel start | NB channel step | Reserved |

**Discussion:** Agree in principle with commenter and it is desired to reduce the bitwidth of the field. Therefore, we propose a simple channel\_start and channel\_end configuration with decimation capability that results in 50% reduction of bitwidth.

**Proposed Resolution : Revise.**

**Editor : Change Figure 49 to the following:**

|  |  |  |  |
| --- | --- | --- | --- |
| Bits: 0–7 | 8-9 | 10-17 | 18-23 |
| NB channel start | NB channel step | NB channel end | Reserved |

**Please make the following text changes:**

The allowed list of NB channels is defined as

*macMmsNbChannelAllowList = NbChannelAffineSet*

where NbChannelAffineSet = {y: y = x × NB\_channel\_step + NB\_channel\_start}, such that NB\_channel\_start ≤ y ≤ NB\_channel\_end and x ∈ ℕ0, where ℕ0 is the set of natural numbers, additionally including zero.

Bits 0 to 7 encode the value of NB\_channel\_start in the range 0 to 249.

Bits 8 to 9 encode the enumeration of NB\_channel\_step {1, 2, 4, 8}.

Bits 10 to 17 encode the value of NB\_channel\_end in the range 0 to 249. The value of NB\_channel\_end shall be greater than or equal to the value of NB\_channel\_start.