**IEEE P802.15**

**Wireless Personal Area Networks**

|  |  |  |
| --- | --- | --- |
| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **Draft 1.0 NB PHY Related Comments Resolution-CIDs 980,981,989** | |
| Date Submitted | September 2024 | |
| Sources | Panpan Li, Bin Qian, Lei Huang, Rojan Chitrakar, David Xun Yang (Huawei) |  |
| Re: |  | |
| Abstract |  | |
| Purpose | To propose comments resolution for “P802.15.4ab™/D1.0 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. | |

***-------------------------------------------------------------------------------------------------------------------------------***

***Comment Index #981 in 15-24-0371-02-04ab-consolidated-comments-draft-1-0***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Index #** | **Commenter** | **Sub-Clause** | **Page** | **Line** | **Comment** | **Proposed Change** |
| 981 | Carlos Aldana | 13.1.3.15 | 179 | 10 | The following 20 MHz block of frequency is not planned to be extensively used by 802.11 devices in UNII-5: 5925-5945. Redefine the UNII-5 frequencies so that k=50,…249 is replaced with 50,…57. In addition, UNII-4 frequencies can be added so as have more Narrowband channels. | As in comment |

**Discussion:**

UNII-3 and UNII-5 are available in most countries/areas. The task group has reached consensus long ago that O-QPSK will operate on UNII-3 and UNII-5 frequency bands. Besides NBA UWB MMS and UWB driven MMS, another PHY may also be employed for control and reporting, which could be operated on UNII-1 and UNII-4 frequency bands. This alternative OOB mechanism is out of the scope of TG-4ab standard.

**Resolution: Rejected**

**Reject reason:**

The task group has reached consensus long ago that O-QPSK will operate on UNII-3 and UNII-5 frequency bands, thus it’s not appropriate to delete part of the channels. As for adding UNII-4, commenter doesn’t provide complete technical solution.

***-------------------------------------------------------------------------------------------------------------------------------***

***Comment Index #980,989 in 15-24-0371-02-04ab-consolidated-comments-draft-1-0***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Index #** | **Commenter** | **Sub-Clause** | **Page** | **Line** | **Comment** | **Proposed Change** |
| 980 | Carlos Aldana | 13.1.3.15 | 179 | 10 | The following 20 MHz block of frequency is not used by 802.11 devices in UNII-1: 5150-5170 and could be added to the frequency list to increase the number of channels allocated for NB. | As in comment |
| 989 | Carlos Aldana | 13.1.3.15 | 179 | 10 | This frequency channel plan only covers UNII-3. UNII-4 is available in some regions and should be added. Please add channels to cover 5725 up to 5875 MHz along with LBT-based mechanism. | As in comment |

**Discussion:**

UNII-3 and UNII-5 are available in most countries/areas. The task group has reached consensus long ago that O-QPSK will operate on UNII-3 and UNII-5 frequency bands. Besides NBA UWB MMS and UWB driven MMS, another PHY may also be employed for control and reporting, which could be operated on UNII-1 and UNII-4 frequency bands. This alternative OOB mechanism is out of the scope of TG-4ab standard.

Also, adding more channel will result the change of current NB channel indication. For example, the NB channel field need to be extended in Figure 49, 50, 51, etc.

**Resolution: Rejected.**

**Reject reason:**

Commenter doesn’t provide complete technical solution.