**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 Resolutions for D02 CIDs 123 and 135 | |
| Date Submitted | May 2025 | |
| Source | Huan-Bang Li and Takeshi Matsumura (NICT, Japan) | {lee, Matsumura}@nict.go.jp |
| Re: | IEEE P802.15.4ab | |
| Abstract | Comment Resolutions for selected comments on the LB213 / P802.15.4ab D02. | |
| Purpose | This document provides text changes intended to be part of the final IEEE Std 802.15.4ab (amendment to IEEE Std 802.15.4), as part of resolving selected comments from the consolidated spreadsheet (DCN 15-25-0174) that have been assigned to the author to resolve. | |
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# Comment Index # 123

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| --- | --- | --- | --- | --- | --- |
| **Index #** | **Page** | **Sub-clause** | **Line #** | **Comment** | **Proposed Change** |
| 123 | 33 | 9.2.13 | 1 | The intention of this sentence is to tell that the procedures in 9.2.4 or 9.2.5 shall be used for those frame types listed in Table 24. However, 'the sentence doesn't clearly show the point. | modify the sentence to clearly describe the intention. |

This comment is related to the following texts:

……

**9.2.13 Incoming frame security procedure for the Compact frames**

This procedure shall be used for the incoming Compact frames eligible for security as listed in Table 23.

This procedure does not apply to those Compact frames not eligible for security (as listed in Table 24), i.e., those other Compact frames cannot be secured. For other frame types, the procedures in 9.2.4 or 9.2.5 shall be used.

**Discussion:**

The commentor was intended to comment on the second sentence of the above texts (yellow highlighted) but it is not explained suitably. The problem of the second sentence is the expression of ‘those other Compact frames’ in the latter part (sentence after i.e.,) in comparison to ‘those Compact frames’ in the first part (sentence before i.e.,). Both of them should be intended to refer to the same thing but it doesn’t read that way. Actually, the meaning of the latter part has already been clarified in the first part.

**Proposed Disposition:** Revised.

**Disposition Detail:** Delete the latter part of the sentence and delete the parentheses in line with that of the first sentence. The proposed revised texts are as follows:

……

**9.2.13 Incoming frame security procedure for the Compact frames**

This procedure shall be used for the incoming Compact frames eligible for security as listed in Table 23.

This procedure does not apply to those Compact frames not eligible for security as listed in Table 24. For other frame types, the procedures in 9.2.4 or 9.2.5 shall be used.

# Comment Index # 135

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Index #** | **Page** | **Sub-clause** | **Line #** | **Comment** | **Proposed Change** |
| 135 | 101 | 10.39.11.1.3.7 | 15 | The sentence started from 'the resultant code index ...' doesn't provide enough detailed information for code selection. | add detailed description for code selection. |

This comment is related to the following texts:

……

In UWB driven MMS UWB, the code index used for the initial SYNC and SFD fragment of the HRP UWB PHY MMS packets is determined from the Sequence Code Index field value, as defined by Table 13, the resultant code index, *ci*, selects one of the length-91 ternary codes from Table 16-9, or one of the length-127 ternary codes from Table 16-8 as appropriate.

**Discussion:**

This comment requires for showing code selection in accordance to code index (*ci*) in a more transparent way, which can be done by showing the detailed values of *ci* (obtained from Table 13) and their correspondence to the codes to be selected.

**Proposed Disposition:** Revised.

**Disposition Detail:** The proposed revised texts are as follows:

In UWB driven MMS UWB, the code index used for the initial SYNC and SFD fragment of the HRP UWB PHY MMS packets is determined from the Sequence Code Index field value, as defined by Table 13, the resultant code index, *ci*, is of the values given in Table Q, with the meaning as indicated in the table.

Table—Q Values of code index used for the initial SYNC and SFD fragment

|  |  |
| --- | --- |
| **Code Index (*ci*) value** | **Meaning, sequence code to be selected** |
| 9-24 | Each value selects a corresponding length-127 ternary code from Table 16-8 |
| 25-32 | Each value selects a corresponding length-91 ternary code from Table 16-9 |
| Others | Reserved |