**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 Advertising Poll Compact frame** |
| Date Submitted | July 2024 |
| Sources | Rojan Chitrakar, Lei Huang (Huawei)rojan.chitrakar@huawei.com |  |
| 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. |

Rev 0: Initial version.

Rev 1: Added CID 60

***Comment Indices in 15-24-0371-00-04ab-consolidated-comments-draft-1-0:***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Index#** | **Pg** | **Sub-Clause** | **Ln** | **Comment** | **Proposed Change** | **Disposition** |
| Rojan Chitrakar | 113 | 92 | 10.38.9.4 | 11 | With the new Presence Bitmap format, the 3 variants (0x10, 0x20 and 0x30) can be combined in a single variant by either making the Initialization Slot Duration and Cap Duration fields mandatory or adding relevant presence bits for Initialization Slot Duration and Cap Duration. | Combine the 3 variants (0x10, 0x20 and 0x30) in a single variant by either making the Initialization Slot Duration and Cap Duration fields mandatory in all 3 variant or adding relevant presence bits for Initialization Slot Duration and Cap Duration. | Revised |
| Mickael Maman | 60 | 93 | 10.39.9.4 | 5 | missing the range of N | add "in the range 0 to 15. | Revised |
|  |
|  |

**Discussion**：

Propose to combine the 3 variants by making the Initialization Slot Duration and Cap Duration fields mandatory in all 3 variant and adding the presence bitmap for SMC TLVs field.



**Disposition: Revised**

**10.38.9.4 Advertising Poll Compact frame**

***Change the sub-clause as follows (Track changes ON)***

**…**

The Message Control field value shall be either 0x00 or 0x10. This value determines the formatting of the Message Content field.

…

When the Message Control field value is 0x10 the Message Content field shall be formatted as shown in Figure 62.

|  |  |  |  |
| --- | --- | --- | --- |
| Octets: 1 | 1 | 1/2 | variable |
| Initialization Slot Duration | Cap Duration | Presence Bitmap | SMC TLVs |

**Figure 62—Format of the Message Content field in the Advertising Poll Compact frame when the Message Control field value is 0x10**

**Delete Figure 63.**

**Delete Figure 64.**

The Initialization Slot Duration field is an unsigned integer in the range 0 to 15 that specifies the duration of an initialization

slot. The duration in RSTU is given by the expression: 600 + 300 × N, where N is the Initialization Slot

Duration field value.

The Presence Bitmap is set as specified in 10.38.9.3.24, except that the fields other than the SMC TLVs Present field and the Extended Presence Bitmap Present field shall be set to zero.

The SMC TLVs field is the list of supported message control commands as defined in 10.38.9.3.5. This is

used by the initiator to signal to responders which compact frames and which message control values it

supports.