**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 on 10.39.7.3** | |
| Date Submitted | Jan. 2024 | |
| Sources | Bin Qian, Lei Huang, Rojan Chitrakar (Huawei) |  |
| Re: |  | |
| Abstract |  | |
| 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. | |

***Comment Index #159 in 15-24-0010-00-04ab-cc-consolidated-comments***

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| **Commenter** | **Sub-Clause** | **Page** | **Line** | **Comment** | **Proposed Change** |
| Benjamin Rolfe | 10.39.7.3 | 129 | 29 | Following the style of the base standard would be better: field definition should be clear, concise and unambiguous, defining how the field is set and used. For example this could reduce to the suggested change. This example should be used to clean up the other definitions in this part of the draft. | The Address Size field indicates the size of addresses contained in the Sensing Responder Address List field. This field shall be set to zero when short addresses are used, and shall be set to 1 when extended addresses are used. |

**Resolution: Accept**

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***Comment Index #158 in 15-24-0010-00-04ab-cc-consolidated-comments***

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| **Commenter** | **Sub-Clause** | **Page** | **Line** | **Comment** | **Proposed Change** |
| Benjamin Rolfe | 10.39.7.3 | 130 | 30 | We have incorrect use of normative language (should, may) and a lot of extra words covering up the actual requirements. We have no definition of specific behavior "obliged" causes to occur. Misuse of what "reserved" means in this standard so that the value of the field is undefined: do you mean that it is absent, or shall be set to zero, under this condition? (note that a reserved field is precisely defined in the standard to mean a field that is always set to zero upon transmission and ignored upon receipt). It appears to combine descriptions of 2 fields in one paragraph (maybe?). It is not clear what is intended (how the field is to be set and used). | Change to: The Mandatory Preferred Sensing Responder field indicates constraints on SDEVs included in the response generated by the SBP Request. The value depends on the value in the Preferred Sensing Responder List field. When the Preferred Sensing Responder List field is set to one, this field shall be set to one to indicate that the response include only SDEVs listed the Sensing Responder Address List field and set to zero to indicate that SDEVs not listed in the Sensing Responder Address List field may also be included in the response. When the Preferred Sensing Responder List field is zero, this field shall be set to zero. When this field is set to one, the Number of Sensing Responders and Mandatory Number of Sensing Responders fields shall be set to zero. |

**Resolution: Revised**

**Proposed text changes on P802.15.4ab™/D (pre-ballot) C:**

**10.39.7.3 SBP Request IE**

*Change Page 130 as follows*

The SBP Procedure Expiry Exponent field contains an unsigned integer. The SBP procedure expiry time is equal to 2^(SBP Procedure Expiry Exponent field value+8) ms. It is a time after which the SBP procedure is terminated, if there are no frame exchange sequences.

The Sensing Responder field when one indicates that the sensing requesting device requests to participate the sensing procedure as a sensing responder initiated by the sensing initiator, and a value of zero indicates that the sensing requesting device requests to not participate in the sensing procedure used by the sensing initiator.

The Number of Sensing Responders field indicates the requested number of sensing responders to participate in the sensing procedure initiated by the sensing initiator to satisfy the SBP request. If the Sensing Responder field is set to one, the value indicated in the Number of Sensing Responders field includes the sensing requesting device.

The Mandatory Number of Sensing Responders field indicates whether the requested number of sensing responders indicated in the Number of Sensing Responders field is interpreted as mandatory by the sensing initiator. The Mandatory Number of Sensing Responders field when zero indicates that the requested number of sensing responders is a maximum number, and the sensing requesting device accepts measurements taken with a smaller number of sensing responders. A value of one indicates that the requested number of sensing responders is a mandatory requirement.

The Preferred Sensing Responder List field when one indicates that the sensing requesting device specifies a preferred set of sensing responders to be included by the sensing initiator in the sensing procedure to satisfy the SBP request, and a value of zero indicates the Sensing Responder Address List field is not present.

The Number of Preferred Sensing Responders field indicates the number of preferred sensing responders with corresponding addresses included in the Sensing Responder Address List field when the Preferred Sensing Responder List field is set to one. In this case, if the Sensing Responder field is set to 1, the value indicated in the Number of Preferred Sensing Responders field includes the sensing requesting device. The Number of Preferred Sensing Responders field is reserved when the Preferred Sensing Responder List field is set to zero. If both the Sensing Responder field and the Preferred Sensing Responder List field are set to one, the address of the sensing requesting device is included in the Sensing Responder Address List field.

The Mandatory Preferred Sensing Responder field indicates constraints on SDEVs included in the sensing procedure as sensing responders. The value depends on the value of the Preferred Sensing Responder List field. When the Preferred Sensing Responder List field is set to one, this field shall be set to one to indicate that the sensing procedure includes only SDEVs listed in the Sensing Responder Address List field as sensing responders and set to zero to indicate that SDEVs not listed in the Sensing Responder Address List field may also be included as sensing responders. When the Preferred Sensing Responder List field is zero, this field shall be set to zero. When this field is set to one, the Number of Sensing Responders and Mandatory Number of Sensing Responders fields shall be set to zero

The Sensing Control field has the same meaning as the Sensing Control field of the AC IE (10.39.7.1).

The Sensing Responder Address List field is present only if the Preferred Sensing Responder List field is set to one. The Sensing Responder Address List field contains one or more addresses that indicate the set of preferred sensing responders to include in the sensing procedure initiated by the sensing initiator to satisfy the SBP request.