**IEEE P802.15**

**Wireless Personal Area Networks**

|  |  |
| --- | --- |
| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | **LB213/D02 comment resolution -- CID 536** |
| Date Submitted | July 28, 2025 |
| Sources | Alex Krebs (Apple)  krebs @ apple.com |
| Re: |  |
| Abstract |  |
| Purpose | To propose resolution for MMS related comments for “P802.15.4ab™/D02 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. |

# CID 536

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Index #** | **Page** | **Sub-clause** | **Line #** | **Comment** | **Proposed Change** |
| VERSO, BILLY | 536 | 111 | 10.39.11.3.1 | 14 | This statement is an optimisation of what can be sginalled in SMV TLVs. Question: Should we have similar optimisations/statements for other frame transmissions, in similar terms of expected support. | Consider whether this is a good thing to do and add the appropriate statements as needed, for one to many and other flavours of message or field inclusions. |

Discussion: Note that we added below text as per resolution of CID 452, so we can extend on this. Tbd. if we want to reassign completion of this comment regarding "other flavours" to other participants?

Proposed resolution: Revised.

Disposition detail:

Instruction to editor: Change clause 10.39.3.9 as per below:

**10.39.3.9 Supported message control list indication**

The initiator (controller) may indicate the supported message ID field values for each Compact frame by

referencing the supported Compact Frame ID values and their Message Control and Message Version values

using the SMID TLVs field. Subclause 10.39.11.1.3.2 details the message encodings.

For example, a SMID\_TLVs to indicate support for basic one-to-one ranging with extended support for

Presence Bitmap signaling in Poll and Response frames with Message Control equal to 1 is represented by the following SMID\_TLVs field:

{ 0x00, 0x01, 0x00, //SMC\_Tag=0 (Advertising Poll), SMC Length=1, SMC\_Values=0

0x01, 0x01, 0x00, //SMC\_Tag=1 (Advertising Response), SMC Length=1, SMC\_Values=0

0x02, 0x01, 0x00, //SMC\_Tag=2 (Start of Ranging), SMC Length=1, SMC\_Values=0

0x03, 0x02, 0x00, 0x10, //SMC\_Tag=3 (One-to-one Poll), SMC Length=2, SMC\_Values={0x00, 0x10}

0x04, 0x02, 0x00, 0x10, //SMC\_Tag=4 (One-to-one Response), SMC Length=2, SMC\_Values={0x00, 0x10}

0x05, 0x01, 0x00, //SMC\_Tag=5 (One-to-one Initiator Report), SMC Length=1, SMC\_Values=0

0x06, 0x01, 0x00 } //SMC\_Tag=6 (One-to-one Responder Report), SMC Length=1, SMC\_Values=0

An alternative, more concise representation using the Message Control 0 set defined in 10.39.11.3.1 is:

{ 0x00, 0x01, 0x00, //SMC\_Tag=0 (Advertising Poll), SMC Length=1, SMC\_Values=0

0x03, 0x01, 0x10, //SMC\_Tag=3 (One-to-one Poll), SMC Length=2, SMC\_Values={0x00, 0x10}

0x04, 0x01, 0x10 } //SMC\_Tag=4 (One-to-one Response), SMC Length=2, SMC\_Values={0x00, 0x10}

The responder (controlee) may request ranging session configuration in the Advertising Response Compact

frame and may indicate the supported message ID list for each Compact frame by referencing the

supported Compact Frame ID field values and their Message ID field values using the SMID TLVs field.

After the supported message control lists have been exchanged, devices shall use values for Compact Frame

ID and Message ID indicated in the peer's SMID TLVs field when transmitting Compact frames to the

peer.