**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 CID 21** |
| Date Submitted | May 2024 |
| Sources | Li-Hsiang Sun (MediaTek) |  |
| Re: |   |
| Abstract |  |
| Purpose | To propose resolution for MMS – Status Code related comments 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. |

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| **Name** | **Index#** | **Pg** | **Sub-Clause** | **Ln** | **Comment** | **Proposed Change** | **Disposition** |
| Li-Hsiang Sun | 21 | 61 | 10.38.9.3 | 22 | If RIF is used in Time Efficient one-to-many ranging, different responders must sync to the same value to initiators STSVcounter | suggest to use block/slot index as part of STS counter and block index is signaled in one-to-many Poll compact frame, or the initial block index for an individual responder is signaled in a unicast SOR frame, for different responders to sync to the same counter value | Revised: Per the resolution of CID19 in 15-24/0123, Starting Block Index is added to SOR message. The higher layer of the responders can base on the signalled index and the assigned slots in a round to populate the *phyHrpUwbStsVUpper96* attribute if the attribute is configured to be dynamic in the beginning of each round. |

**Disposition: Revised**

**Disposition Detail:**

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

***Modify the last paragraph of 16.2.9.2***

**16.2.9.2 The STS generation DRBG**

**…**

While this specification covers the transmitter operation, it is expected that the receiver will use the samemechanism and aligned values of the STS seed and V to generate a complementary sequence for cross correlation with the transmitted sequence. The mechanisms for agreeing, coordinating and synchronizing these values between HRP-ERDEV are the responsibility of the higher layers. The RSSD IE described in 10.29.8.2 may be used to synchronize the values of V and the STS seed between HRP-ERDEVs before they participate in a ranging exchange employing the STS. The Starting Block Index field described in 10.38.10.6 can be used to synchronize the values of V between a HRP-ARDEV which joins an on-going NBA UWB MMS one-to-many ranging session and the rest of HRP-ARDEVs already in the on-going ranging session, in which the ranging exchange employs the STS.