**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” . | |
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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.