IEEE P802.11
Wireless LANs

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| Resolutions for Instance Comments in CC40 - Part 4 |
| Date: 2022-11-03 |
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Abstract

This submission proposes resolutions to editorial comments submitted in CC40. The text used as reference is D0.3.

CIDs: 137 151 152 281 98 548 624

Revision history:

R0: Original version

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed change** |
| 137 | 11.21.18.6.3 | 31.18 | "If the number of available sensing transmitters exceeds the available uplink resources, multiple sequential triggerframes can be transmitted within the acquired TXOP." In some scenarios and use cases, using multiple sequential trigger frames to accommodate a large number of sensors may be inefficient. | Enable allocation of the same uplink resource to multiple STAs to cover the use cases with large number of sensors. Contribution 22/0654 provides a proposed solution. |

**Proposed resolution**: Rejected.

**Discussion**: TGbf reviewed contribution DCN0654 and decided not to go with this proposal. The authors also confirmed that they will not proceed with the contribution and are fine with rejecting this CID.

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed change** |
| 151 | 11.21.18.4 | 68.31 | "The measurement setup ID shall be assigned by a sensing initiator ... ". It is not clear what the measurement setup ID refers to. Does it refer to a specific application or a certain set of parameters? | Define what is the measurement setup ID and include the rules for setting this ID in the specs. |
| 152 | 11.21.18.5 | 68.4 | It is not clear what is the definition of The Measurement Instance ID and what is the range of values applicable to this ID | Define what is the measurement instance ID and include the rules for setting this ID in the specs. |

**Proposed resolution**: Revised to all. Already resolved in D0.4.

**Discussion**: In the latest 11bf draft D0.4 and some recent contributions ready for motion, we already added clear definitions and descriptions of the measurement setup ID and measurement instance ID, which are sufficient to resolve these two CIDs. Examples are included in the below. Therefore, no further changes are needed.

Measurement setup ID:

**9.6.7.49 Sensing Measurement Setup Reqeust frame format**

The Measurement Setup ID field in the Sensing Measurement Setup Request frame indicates a Measurement
Setup ID that identifies assigned operational parameters in the Sensing Measurement Parameters Element to
be used in the corresponding sensing measurement instances as shown in Figure 9-1140b (Measurement
Setup ID field format (#76, #261, #518)).

**11.55.1.1 Overview**

As defined in 11.55.1.4 (Sensing measurement setup)(#188, #231, #342, #745), operational parameters associated with sensing measurement instance(s) of a given Measurement Setup ID are set in the sensing measurement setup(#429, #665, #848, #852, #853, #854, #856, #858, #859, #841, #185). Multiple sensing measurement setups may be established between a sensing initiator and a sensing responder, which are
assigned different Measurement Setup IDs(#17).

**11.55.1.4 Sensing measurement setup**

Sensing measurement setup allows for a sensing initiator and a sensing responder to exchange and agree on
operational parameters associated with sensing measurement instance(s)(#429, #665, #848, #852, #853,
#854, #856, #858, #859, #841) of a given Measurement Setup ID(#191).

The Measurement Setup ID(#217) shall be assigned by a sensing initiator, the <sensing initiator’s MAC
address, Measurement Setup ID> tuple should be used to uniquely(#25) identify the corresponding sensing
measurement setup(#861, #752)

The assignment of sensing transmitter and/or sensing receiver role(s) of a STA corresponding to a Measurement Setup ID(#217) shall be fixed until the sensing measurement setup is terminated.

Measurement Instance ID:

**11.55.1.1 Overview**

Each measurement instance is assigned(#851) a Measurement Instance ID (see 11.55.1.5 (Sensing measurement instance)(#190, #234, #462, #609)).

The Measurement Instance ID may be used to identify sensing measurement instance(s) that have the sensing measurement setup identified by the <Sensing Initiator’s MAC address, Measurement Setup ID> tuple(#429, #665, #848, #852, #853, #854, #856, #858, #859, #841, #614).

DCN1579r3 ready for motion:

Measurement Instance ID: Indicates the sensing measurement instance corresponding to the Sensing Measurement Report and identifies the different segments of the same report.

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed change** |
| 281 | 9.6.7.51 | 59.28 | It is confusing saying the Sensing Measurement Report element contains one or more Sensing Measurement Report element. It's better to change the name of it. | As in the comment. |

**Proposed resolution**: Revised. Already resolved in DCN1579r3.

**Discussion**: In DCN1579r3 which is ready for motion, the format of the Sensing Measurement Report frame has been changed. Currently, the Sensing Measurement Report frame consists of one or more Sensing Measurement Report Container fields, and each Sensing Measurement Report Contain field further includes one Sensing Measurement Report subfield. No further action is required at this stage.

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed change** |
| 98 | 11.21.18.6.1 | 69.38 | Intent of the note is not clear. It is clear that polling/requests should take the erceiver's capability into account. Details will need to be defined when defining the frame. | Delete the Editor's Note. |
| 548 | 11.21.18.6.1 | 69.38 | Through the sensing measurement setup phase, AP can know the STA's capabilities and based on the result of this phase, AP can decide on the STAs that can participate in the sensing measurement. So. Editor's note seems does not need. | Delete the Editor's note |

**Proposed resolution**: Accepted.

**Discussion**: In DCN1577r3 that is ready for motion, we already added the corresponding “Poll Required” capability field in the Sensing element, and the “Poll Assigned” subfield in the TB Specific subelement in the Sensing Measurement Parameters element. So, it is clear that the AP will determine whether to assign a STA to the polling phase based on the capabilieis of the STA. Therefore, we can delete the Editor’s note.

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| **CID** | **Clause** | **Page** | **Comment** | **Proposed change** |
| 624 | 11.21.18.6.3 | 70.18 | If there are hundreds of responders, there is no gurantee that the TF sounding could be completed in one TXOP. | Put a limitation to the number of responders, and allow the AP initiate multiple MSs for one application. |

**Proposed resolution**: Revised. Already resolved in D0.4.

**Discussion**:

We already agreed in D0.4 that each sensing availability window may consist of one or more TXOPs, and each TXOP may consist of one or more TB sensing measurement instances. Moreover, in the TF sounding phase, If the number of available sensing transmitters exceeds the available uplink resources, the AP may perform the frame exchange of transmitting a Sensing Sounding Trigger frame and soliciting the SR2SI NDP transmission(s) multiple times during the TF sounding phase in a TB sensing measurement instance. All these should be enough to cope with the scenario where there are many sensing responders in the TF sounding phase. Therefore, there is no need to put a limitation to the number of responders, and there is no need to allow the AP to initiate multiple MSs for one application.

## SP

Do you support the proposed resolutions to the following CIDs and incorporate the text changes into the latest TGbf draft: 137 151 152 281 98 548 624?

Y/N/A