IEEE P802.11  
Wireless LANs

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | LB 272 CR for CIDs on Instance – Part 1 | | | | | | Date: 2023-05-12 | | | | | | Author(s): | | | | | | Name | Affiliation | Address | Phone | email | | Mahmoud Kamel | InterDigital |  |  | mahmoud.kamel@interdigital.com | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |

Abstract

This submission proposes resolutions for 10 CIDs (1101, 1134, 1605, 1570, 1571, 1729, 2028, 2029, 1606, 1730) in subclause 11.55.1.5 in P802.11bf D1.0:

NOTE – Set the Track Changes Viewing Option in the MS Word to “All Markup” to clearly see the proposed text edits.

**Revision History:**

R0: Initial version

R1: Updated the resolution of CID 2029

## CIDs: 1134, 2028

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| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** | **Resolution** |
| 1134 | 11.55.1.5.2.3 | 180.04 | Suggestion to improve writing | "... on which one or more STAs perform sensing measurements." | **Accept** |
| 2028 | 11.55.1.5.2.3 | 180.03 | "In the NDPA sounding phase, the AP, which is a sensing transmitter, transmits an SI2SR NDP". The AP doesn't only transmit an NDP, but also an NDPA. A figure would be nice here to illustrate the NDPA sounding phase. | See comment | **Reject**  The fact that an NDPA is transmitted in the NDPA sounding phase is stated explicitly in the last sentence of this paragraph. Also, Figure 11-74d illustrates the NDPA sounding phase as a part of a TB sensing measurement instance, so no need to add another figure to show this |

***TGbf editor: please make the following change in subclause 11.55.1.5, P180L4.***

In the NDPA sounding phase, the AP, which is a sensing transmitter, transmits an SI2SR NDP on which (#1134) one or more STAs perform sensing measurements (#1134).

## CIDs: 1011

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| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** | **Resolution** |
| 1101 | 11.55.1.5.2.3 | 180.04 | The sentence is lacks a verb in the conditional clause (after the "if"): "The NDPA sounding phase shall be present in a TB sensing measurement instance if at least one STA that is a sensing receiver in this NDPA sounding phase and that is not assigned to be polled or has responded in the polling phase." | Clarify the requirement - perhaps "The NDPA sounding phase shall be present in a TB sensing measurement instance if there exists at least one STA that is a sensing receiver in this NDPA sounding phase and that is not assigned to be polled or has responded in the polling phase." | **Accept** |

***TGbf editor: please make the following change in subclause 11.55.1.5, P180L4.***

The NDPA sounding phase shall be present in a TB sensing measurement instance if there exists (#1101) at least one STA that is a sensing receiver in this NDPA sounding phase and that is not assigned to be polled or has responded in the polling phase. If the NDPA sounding phase is present in a TB sensing measurement instance, and if the polling phase is also present, the NDPA sounding phase shall start a SIFS after the polling phase. If the NDPA sounding phase is present in a TB sensing measurement instance, and if the polling phase is not present, the AP shall send the Sensing NDP Announcement frame as the first frame in this measurement instance.

## CIDs: 1605

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| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** | **Resolution** |
| 1605 | 11.55.1.5.2.3 | 180.17 | The text is not clear | Change the text to " ... followed after a SIFS by SI2SR NDP transmission ..." | **Accept** |

***TGbf editor: please make the following change in subclause 11.55.1.5, P180L17.***

The AP shall transmit a Sensing NDP Announcement frame to one or more STAs that are sensing receivers in this NDPA sounding phase and that are not assigned to be polled or have responded in the polling phase, followed after a SIFS by SI2SR NDP transmission. The STA Info fields within the Sensing NDP Announcement frame specify STAs that shall perform sensing measurements on the SI2SR NDP sent by the AP.

## CIDs: 1570, 1571, 1729, 2029

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| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** | **Resolution** |
| 1570 | 11.55.1.5.2.3 | 180.20 | NDP Announcement frame has no bandwidth | " ... If the bandwidth of the PPDU carrying the Sensing NDP Announcement frame ... " | **Accept** |
| 1571 | 11.55.1.5.2.3 | 180.24 | NDP Announcement frame has no bandwidth | " ... If the bandwidth of the PPDU carrying the Sensing NDP Announcement frame ... " | **Accept** |
| 1729 | 11.55.1.5.2.3 | 180.26 | Delete the word "EHT-LTF" after the word "GI" | As per comment | **Accept** |
| 2029 | 11.55.1.5.2.3 | 180.26 | "and all the EHT puncturing patterns shall be supported". It may be clearer to say "the transmitter may use any EHT puncturing pattern" | See comment | **Revise**  The suggestion of the commenter is reflected to the text with some editorial changes.  TGbf editor: please incorporate changes shown in 11-23/828r1 below. |

***TGbf editor: please make the following change in subclause 11.55.1.5, P180L20.***

If the bandwidth of the PPDU carrying the (#1570) Sensing NDP Announcement frame is less than or equal to 160 MHz, the format of the SI2SR NDP shall be a HE Ranging NDP, as described in 27.3.18a.1 (HE Ranging NDP).

If the bandwidth of the PPDU carrying the (#1571) Sensing NDP Announcement frame is equal to 320 MHz, the format of SI2SR NDP shall be an EHT sounding NDP, as described in 36.3.18 (EHT sounding NDP). The EHT LTF symbol shall use the 2x EHT-LTF with 1.6 μs GI (#1729) and the transmitter may use one of the EHT puncturing patterns as specified in (Table 36-30—Definition of the Punctured Channel Information field in the U-SIG for an EHT MU PPDU using non-OFDMA transmissions) (#2029).

## CIDs: 1606, 1730

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| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** | **Resolution** |
| 1606 | 11.55.1.5.2.3 | 180.39 | Sensing NDP Announcement frame is not a PPDU. | Change this text "When transmitting a Sensing NDP Announcement frame and SI2SR NDP, the AP shall set the TXVECTOR parameter CH\_BANDWIDTH of both PPDUs to the same value." to "The AP shall set the TXVECTOR parameter CH\_BANDWIDTH of both the PPDU carrying the NDP Announcement frame and the SI2SR NDP to the same value." | **Accept** |
| 1730 | 11.55.1.5.2.3 | 180.35 | Change the text "The AP shall select a bandwidth value for the NDPA sounding phase that is less than or equal to the value indicated in the BW subfield within the Sensing element of each of the STAs addressed in this phase" to | The AP shall select a bandwidth value for the NDPA sounding phase that is less than or equal to the Sensing Assigned Max Bandwidth corresponding to the measurement setup ID included in this Sensing NDP Announcement frame for each of the STAs addressed in this phase | **Accept** |

***TGbf editor: please make the following change in subclause 11.55.1.5, P180L35.***

The AP shall select a bandwidth value for the NDPA sounding phase that is less than or equal to the Sensing Assigned Max Bandwidth corresponding to the measurement setup ID included in this Sensing NDP Announcement frame for each of the STAs addressed in this phase (#1730). The AP shall set the TXVECTOR parameter CH\_BANDWIDTH of both the PPDU carrying the NDP Announcement frame and the SI2SR NDP to the same value. (# 1606).