IEEE P802.11  
Wireless LANs

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| [CR for NDP TTT] | | | | |
| Date: 2022-10-19 | | | | |
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Abstract

This submission proposes resolutions for the follwing 5 CC40 CIDs: 310 - 314. The proposed changes are based on IEEE 802.11bf D0.1 [1].

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Resolution changed from “Rejected” to “Revised”

## CID 310 - 314

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| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 310 | 69.52 | 11.21.18.6.2 | """In the NDPA sounding phase, the AP, which is a sensing transmitter, sends NDP to one or more STAs to perform sensing measurement.""  It is not clear what PPDU type (HE/Ranging/EHT) is used for the NDP transmitted by the AP. Since the PPDU type supported by STAs depend on the supported PHY, in order to make 11bf work on STAs that support different PHYs, 11bf should support transmission of NDPs of different PPDU types depending on the PHY supported by the sensing transmitter and sensing receivers. As an example, from the PICS of P802.11az\_D4.0 it appears that support for HE Ranging NDPs is optional, and limiting 11bf to HE Ranging NDP will greatly reduce the market reach of 11bf." | "Change the cite sentence to: ""In the NDPA sounding phase, the AP, which is a sensing transmitter, sends NDP to one or more STAs to perform sensing measurement, the PPDU type of the NDP depending on the common PHY supported by the AP and the STA(s).""" | Revised  It is already resolved and described in Sensing NDP PDT, 22/1937r3..  Note to the Editor: No further change is required |
| 311 | 69.65 | 11.21.18.6.2 | 11bf should support transmission of I2R NDPs of different PPDU types depending on the PHY supported by the sensing transmitter and sensing receivers. The Sensing NDP Announcement can indicate the PPDU type used by the I2R NDP. | Clarify that the format of the I2R NDPs can be of different PPDU types depending on the PHY supported by the sensing transmitter and sensing receivers. Add a PPDU type field in the Sensing NDP Announcement to indicate the PPDU type used by the I2R NDP. | Revised  It is resolved and described in Sensing NDP PDT, 22/1937r3.  Note to the Editor: No further change is required |
| 312 | 70.01 | 11.21.18.6.3 | """In the TF sounding phase, the AP, which is a sensing receiver, solicits NDP transmissions from one or more STAs to perform sensing measurement.""  It is not clear what PPDU type (HE/Ranging/EHT) is used for the NDP transmitted by the AP. Since the PPDU type supported by STAs depend on the supported PHY, in order to make 11bf work on STAs that support different PHYs, 11bf should support transmission of NDPs of different PPDU types depending on the PHY supported by the sensing transmitter and sensing receivers. As an example, from the PICS of P802.11az\_D4.0 it appears that support for HE Ranging NDPs is optional, and limiting 11bf to HE Ranging NDP will greatly reduce the market reach of 11bf." | Change the cite sentence to: "In the TF sounding phase, the AP, which is a sensing receiver, solicits NDP transmissions from one or more STAs to perform sensing measurement, the PPDU type of the NDP depending on the common PHY supported by the AP and the STA(s)." | Revised  R2I NDP for the TF Sounding Phase is limited to 160 MHz, HE Ranging NDP PPDU. It is described in Sensing NDP PDT, 22/1937r3.  Note to the Editor: No further change is required |
| 313 | 70.21 | 11.21.18.6.3 | 11bf should support transmission of R2I NDPs of different PPDU types depending on the PHY supported by the sensing transmitter and sensing receivers. The Sensing Sounding TF can indicate the PPDU type used by the R2I NDP. | Clarify that the format of the R2I NDPs can be of different PPDU types depending on the PHY supported by the sensing transmitter and sensing receivers. Add a PPDU type field in the Sensing Sounding TF to indicate the PPDU type used by the R2I NDP. | Revised  R2I NDP for the TF Sounding Phase is limited to 160 MHz, HE Ranging NDP PPDU. It is described in Sensing NDP PDT, 22/1937r3.  Note to the Editor: No further change is required |
| 314 | 72.01 | 11.21.18.7 | 11bf should support transmission of NDPs of different PPDU types depending on the PHY supported by the sensing transmitter and sensing receivers. The Sensing NDP Announcement can indicate the PPDU type used by the NDPs. | Clarify that the format of the I2R and R2I NDPs can be of different PPDU types depending on the PHY supported by the sensing transmitter and sensing receivers. Add a PPDU type field in the Sensing NDP Announcement to indicate the PPDU type used by the I2R and R2I NDPs. | Revised  The NDP PPDU type for the non-TB Sounding is limited to 160 MHz, HE Ranging NDP PPDU. It is described in Sensing NDP PDT, 22/1937r3.  Note to the Editor: No further change is required |
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**References:**

**[1] 802.11bf D0.1**

**SP:**

**Do you agree with the resolutions in 22/1963r1?**