IEEE P802.11
Wireless LANs

|  |
| --- |
| CC40 D0.51 bug fixes |
| Date: 2022-01-16 |
| Author(s): |
| Name | Company | Address | Phone | email |
| Dong Wei | NXP |  |  | dong.wei@nxp.com |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Abstract

This document proposes fixing a few minor issues in 11bf draft D0.51.

**Issue #1**

The definition of the acronym “SR2SR” is missing.

*TGbf Editor: Please insert the following line to Clause 3.4 (Abbreviations and acronyms) of D0.51.*

SR2SR sensing responder to sensing responder

**Issue #2**

An NDP does not have any address.

*TGbf Editor: Please revise the paragraph at P163L7-25 of Clause 11.55.1.5.2.1 (General) of D0.51 as follows.*

Figure 11-75d (Example of TB sensing measurement instance(#173, #546, #158, #289, #757)) shows an example of a TB sensing measurement instance consisting of a polling phase, an NDPA sounding phase, a TF sounding phase, and a reporting phase. In the polling phase, the AP polls five STAs (i.e., STA1 to STA5) that are assigned to be polled, where STA 1, STA2, and STA 3 are sensing transmitters and STA 4 and STA 5 are sensing receivers. Except for STA3, four STAs (i.e., STA1, STA2, STA4, and STA5) respond to the AP with CTS-to-self, so both TF sounding phase and NDPA sounding phase are present. STA3 does not respond to the AP with CTS-to-self skips the corresponding TB sensing measurement instance. In the NDPA sounding phase, the AP sends a Sensing NDP Announcement frame to STA4, STA5, and STA 6, and transmits an SI2SR NDP a SIFS after the NDPA, where STA4 is a sensing receiver that is not assigned to transmit Sensing Measurement Report frame that result from the sensing measurement setup and STA6 is a sensing receiver that is not assigned to be polled. In the TF sounding phase, the AP sends a Sensing Sounding Trigger frame to STA1 and STA 2 to solicit sensing responder to sensing initiator (SR2SI) NDP transmissions, In the TF sounding phase, the AP sends a Sensing Sounding Trigger frame to STA1 and STA 2 to solicit SR2SI NDP transmissions, where SR2SI NDPs from STA1 and STA2 are multiplexed in the spatial stream domain covering the full bandwidth(#883). In the reporting phase, STA5 to STA6 send the sensing measurement results obtained in a TB sensing measurement instance to AP(#158, #289, #757).

*TGbf Editor: Please revise the first paragraph of Clause 11.55.1.5.2.3 (NDPA sounding phase) of D0.51 as follows.*

In the NDPA sounding phase, the AP, which is a sensing transmitter, transmits an SI2SR NDP, on which the one or more STAs perform sensing measurement(#123, #309, #862). The NDPA sounding phase sha ll 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(#761). 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(#95, #756, #496, #541, #791).

*TGbf Editor: Please revise Clause 11.55.1.5.3.2 (Measurement sounding phase) of D0.51 as follows.*

A non-AP STA, acting as a sensing initiator, shall initiate a non-TB sensing measurement instance by transmitting a Sensing NDP Announcement frame addressed to the AP, followed by an SI2SR NDP after SIFS. The non-AP STA shall transmit the SI2SR NDP with the same bandwidth as the PPDU carrying the Sensing NDP Announcement frame(#564). In response to the correctly received Sensing NDP Announcement frame addressed to itself, SIFS after the SI2SR NDP, the AP shall transmit an SR2SI NDP with the same bandwidth as the PPDU carrying the Sensing NDP Announcement frame(#564).

**SP:** Do you agree to the text changes to Draft P802.11bf\_D0.51 proposed in document 11-23/0102?