IEEE P802.11
Wireless LANs

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| Clean-up of texts in 26.5.2.5 |
| Date: 2024-05-04 |
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Abstract

This submission proposes to clean up the text in 26.5.2.5.

Revisions:

R0: Initial version.

***Editing instructions formatted like this are intended to be copied into the TGme Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGme Editor: Editing instructions preceded by “TGme Editor” are instructions to the TGme editor to modify existing material in the TGme draft. As a result of adopting the changes, the TGme editor will execute the instructions rather than copy them to the TGme Draft.***

**Discussion:**

**The different references are used in 26.5.2.5 for ED-based CCA or energy detection for UL MU CS mechanism. It looks better to align the references in 26.5.2.5 (UL MU CS mechanism) if there is no special reason to have different references.**

**According to the definition of CCA in clause 3, the CCA is the logical function of physical layer. i.e., not related to virtual CS or NAV.**

**Change the virtual carrier sense to the virtual CS because the virtual carrier sense happens once in the same subclause 26.5.2.5 and we usually use virtual CS in many places.**

**Related texts should be updated.**

**Among the below two options, option 1 text looks better.**

* UL MU CS mechanism

The ED-based CCA and virtual CS functions are used to determine the state of the medium if CS is required before responding to a received Trigger frame. ED-based CCA for the UL MU CS mechanism is defined in 27.3.22.6.4 (CCA sensitivity for signals not occupying the primary 20 MHz channel), and virtual CS is defined in 10.3.2.1 (CS mechanism).

**….**

If the CS Required subfield in a Trigger frame is 1, then the non-AP STA shall consider the status of the CCA [using energy detect defined in (#2365)27.3.22.6 (CCA sensitivity) and the virtual carrier sense (NAV)] during the SIFS between the Trigger frame and the PPDU sent in response to the Trigger frame.

**Proposed text of option 1:**

**TGme Editor: Please make the following changes in the subclause 26.5.2.5.(Line 28~31, Page 4094 in REVme D5.0)**

* UL MU CS mechanism

The ED-based CCA and virtual CS functions are used to determine the state of the medium if CS is required before responding to a received Trigger frame. ED-based CCA for the UL MU CS mechanism is defined in 27.3.22.6.4 (CCA sensitivity for signals not occupying the primary 20 MHz channel), and virtual CS is defined in 10.3.2.1 (CS mechanism).

**….**

If the CS Required subfield in a Trigger frame is 1, then the non-AP STA shall consider ED-based CCA (see 27.3.22.6.4 (CCA sensitivity for signals not occupying the primary 20 MHz channel)) and virtual CS (see 10.3.2.1 (CS mechanism)) during the SIFS between the Trigger frame and the PPDU sent in response to the Trigger frame.

**Proposed text of option 2:**

**TGme Editor: Please make the following changes in the subclause 26.5.2.5.( Line 47~51, Page 4093 and Line 28~31, Page 4094 in REVme D5.0)**

* UL MU CS mechanism

The ED-based CCA and virtual CS functions are used to determine the state of the medium if CS is required before responding to a received Trigger frame. ED-based CCA for the UL MU CS mechanism is defined in 27.3.22.6 (CCA sensitivity), and virtual CS is defined in 10.3.2.1 (CS mechanism).

**….**

If the CS Required subfield in a Trigger frame is 1, then the non-AP STA shall consider ED-based CCA (see (#2365)27.3.22.6 (CCA sensitivity)) and virtual CS (see 10.3.2.1 (CS mechanism)) during the SIFS between the Trigger frame and the PPDU sent in response to the Trigger frame.

**SP: Do you agree to the proposed text of option 1 in 24/786 and incorporate the proposed text of the option 1 to the latest version of TGme Draft?**