IEEE P802.11
Wireless LANs

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| CC36 CR for CID 6940 |
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| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Yanyi Ding | Panasonic |  |  | Yanyi.ding@sg.panasonic.com |
| Rojan Chitrakar |  |  |  |
| Bo Sun  | ZTE |  |  |  |
| Ruchen Duan | Samsung |  |  |  |
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Abstract

This submission proposes resolutions of comments received from TGbe comment collection (TGbe Draft 1.01).

* CIDs: 6940

Revisions:

* Rev 0: Initial version of the document.
1. **Introduction**

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGbe Draft. The introduction and the explanation of the proposed changes are not part of the adopted material.

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

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

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| CID | Clause  | Page.line | Comment | Proposed Change | Resolution |
| 6940 | 8.3.5.12 |  | Table 8-5 in section 8.3.5.12 PHY-CCA.indication should be updated with 16bits CCA indication of each channel in 320MHz | Add normative that describes the procedure to check CCA on punctured patterns (probably not via S40, S80, S160) | **Revised.**Agree that Table 8-5 needs to be updated. According to **8.3.5.12**, the number of bits for CCA indication of each channel (per20bitmap) is not specified. So it is unnecessary to highlight 16bits here. According to motion 137 and 36.3.20.6, 802.11be does not define CCA on secondary channels, and busy/idle status is indicated per 20 MHz subchannel. Thus, adding normative that describes the procedure to check CCA on punctured patterns is unnecessary. ***Instructions to the editor:***Please make the changes to the spec as shown in 11/21- 1232r1, under CID 6940 |

**Discussion:** None.

**Propose:**

Revise for CID 6940 at **8.3.5.12.2 Semantics of the service primitive** and **8.3.5.12.3 When generated** as per editing instructions in 11-21/1232r1

***Change Table 8-5 (The channel-list parameter entries) as follows (only modified rows shown):***

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| **Channel-list parameter entry** | **Meaning** |
| Primary | In an HT STA that is neither a VHT STA nor an HE STA nor an EHT STA, indicates that the primary 20 MHz channel is busy according to the rules specified in 19.3.19.5.4 (CCA sensitivity in 20 MHz) and 19.3.19.5.5 (CCA sensitivity in 40 MHz). In a VHT STA that is neither an HE STA nor an EHT STA, indicates that the primary 20 MHz channel is busy according to the rules specified in 21.3.18.5.3 (CCA sensitivity for signals occupying the primary 20 MHz channel).In a TVHT STA, indicates that the primary channel is busy according to the rules specified in 22.3.18.6.3 (CCA sensitivity for signals occupying the primary channel).In an HE STA that is not an EHT STA, indicates that the primary 20 MHz channel is busy according to the rules specified in 27.3.20.6.3 (CCA sensitivity for the primary 20 MHz channel).In an EHT STA, indicates that the primary 20 MHz channel is busy according to the rules specified in 36.3.20.6.3 (CCA sensitivity for occupying the primary 20 MHz channel).  |

***Change the last paragraph of 8.3.5.12.2 (Semantics of the service primitive) as follows:***

If the STA is an HE STA or an EHT STA with an operating channel width greater than 20 MHz, then the per20bitmap parameter is present; otherwise it is absent. If present, the per20bitmap parameter in an HE STA that is not an EHT STA is a bitmap where each bit represents the busy/idle status of a 20 MHz subchannel in the operating channel width as defined in 27.3.20.6.5 (Per 20 MHz CCA sensitivity); the per20bitmap parameter in an EHT STA is a bitmap where each bit represents the busy/idle status of a 20 MHz subchannel in the operating channel width as defined in 36.3.20.6.4 (Per 20 MHz CCA sensitivity).

***Insert the following at the end of 8.3.5.12.2 (Semantics of the service primitive) as follows:***

NOTE - When CCA-Energy Detect is required, the primitive in an HT STA that is neither a VHT STA nor an HE STA nor an EHT STA indicates a medium busy condition as defined in 19.3.19.5.2 (CCA-Energy Detect (CCA-ED)); the primitive in a VHT STA that is neither an HE STA nor an EHT STA indicates a medium busy as defined in 21.3.18.5.2 (CCA sensitivity for operating classes requiring CCA-ED); the primitive in an HE STA that is not an EHT STA indicates a medium busy as defined in 27.3.20.6.2 (CCA sensitivity for operating classes requiring CCA-ED); the primitive in an EHT STA indicates a medium busy as defined in 36.3.20.6.2 (CCA sensitivity for operating classes requiring CCA-ED).

***Change the first paragraph of 8.3.5.12.3 (When generated) as follows:***

For Clause 15 (DSSS PHY specification for the 2.4 GHz band designated for ISM applications) to Clause 20 (Directional multi-gigabit (DMG) PHY specification) PHYs, this primitive is generated within aCCATime of the occurrence of a change in the status of the primary channel from channel idle to channel busy or from channel busy to channel idle or when the entries of the channel-list parameter change. For Clause 21 and Clause 22 PHYs, this primitive is generated when the status of the channel(s) changes from channel idle to channel busy or from channel busy to channel idle or when the entries of the channel-list parameter change. This includes the period of time when the PHY is receiving data. For Clause 27 and Clause 36 PHYs, this primitive is generated when the status of the channel(s) changes from channel idle to channel busy or from channel busy to channel idle, when the entries of the channel-list parameter change, or when the per20bitmap parameter changes. The timing of PHY-CCA.indication primitives related to transitions on secondary channel(s) is PHY specific. Refer to specific PHY clauses for details about CCA behavior for a given PHY.