IEEE P802.11  
Wireless LANs

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| PHY CCA | | | | |
| Date: 2014-07-15 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Liwen Chu | Marvell |  |  |  |
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Abstract

This submission proposes comment resolutions for subclause 7.3.5.12.2:

3229, 3691.

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 TGah Draft. This introduction is not part of the adopted material.

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

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

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| **CID** | **Clause Num** | **P** | **L** | **Comment** | **Propose Change** | **Resolution** |
| 3229 | 7.3.5.12.2 | 67 | 4 | 11ah amendment has nothing to do with VHT. Remove the applied changes to the rows Secondary40 and Secondary80 of table 7-5. Also there is an inconsistency in the paragraph that precedes this table. Replace "PHYCCA" with "PHY-CCA"\_ | As in comment. | Revise  Discussion: adding VHT to secondary40 and secondary80 makes the table better. It is better to keep the adding. The commenter is right that “PHYCCA” should berepalced by PHY-CCA”. It seems that TVHT should also be listed in paragraph 4. But I leave this to 11mc.  TGah Editor:  TGah editor to make changes shown in 11-14/xxxrx |
| 3691 | 7.3.5.12.2 | 67 | 16 | A >=2MHz STA may transmit 1MHz PPDU if the 1MHz sub-channel in 2MHz primary channel which is not used for transmitting 1Mhz PPDU is busy. | Add secondary1 to the table for the purpose. This may also need the definition of secondary 1MHz. | Revise.  Discussion: It is not clear from the table the condition for 1MHz transmission. Per 24.3.17.5.4, primary2 also means primary1 is not busy.  TGah Editor:  TGah editor to make changes shown in 11-14/xxxrx |

7.3.5.12 PHY-CCA.indication

7.3.5.12.2 Semantics of the service primitive

***TGah Editor***: Change the 4th paragraph of this subclause as follows:

When STATE is IDLE or when, for the type of PHY in operation, CCA is determined by a single channel, the channel-list parameter is absent. Otherwise, it carries a set indicating which channels are busy. The channel-list parameter in a PHY-CCA.indication primitive generated by a VHT STA, and an S1G STAcontains at most a single element. Table 7-5 (Channel-list parameter elements) defines the members of this set.

***TGah Editor***: Change Table 7-5 as follows :

**Table 7-5—Channel-list parameter elements**

|  |  |  |  |
| --- | --- | --- | --- |
| |  | | --- | | **Channel-list elements** | | |  | | --- | | **Meaning** | |
| |  | | --- | | primary | | |  | | --- | | For an HT STA that is not a VHT STA, indicates that the primary 20 MHz channel is busy.  For a VHT STA, indicates that the primary 20 MHz channel is busy according to the rules specified in 22.3.19.5.3 (CCA sensitivity for signals occupying the pri­mary 20 MHz channel).  For a TVHT STA, indicates that the primary channel is busy according to the rules specified in 23.3.19.5.3 (CCA sensitivity for signals occupying the primary chan­nel). | |
| secondary | |  | | --- | | For an HT STA that is not a VHT STA, indicates that the secondary channel is busy.  For a VHT STA, indicates that the secondary 20 MHz channel is busy according to the rules specified in 22.3.19.5.4 (CCA sensitivity for signals not occupying the pri­mary 20 MHz channel).  For a TVHT STA, indicates that the secondary channel is busy according to the rules specified in 23.3.19.5.4 (CCA sensitivity for signals not occupying the pri­mary channel). | |
| secondary40 | |  | | --- | | For a VHT STA, i~~I~~ndicates that the secondary 40 MHz channel is busy according to the rules specified in 22.3.19.5.4 (CCA sensitivity for signals not occupying the pri­mary 20 MHz channel).  For a TVHT STA, indicates that the secondaryTVHT\_2W channel is busy accord­ing to the rules specified in 23.3.19.5.4 (CCA sensitivity for signals not occupying the primary channel). | |
| secondary80 | |  | | --- | | For a VHT STA, i~~I~~ndicates that the secondary 80 MHz channel is busy according to the rules specified in 22.3.19.5.4 (CCA sensitivity for signals not occupying the pri­mary 20 MHz channel). | |
| primary1 | |  | | --- | | For an S1G STA, indicates that the primary 1 MHz channel is busy according to the rules specified in 24.3.17.5.4 (CCA sensitivity for signals occupying the Primary 2 MHz and/or Primary 1 MHz channel). | |
| primary2 | |  | | --- | | For an S1G STA, indicates that the primary 2 MHz channel is busy but primary 1MHz channel is idle according to the rules specified in 24.3.17.5.4 (CCA sensitivity for signals occupying the Primary 2 MHz and/or Primary 1 MHz channel). | |
| secondary2 | |  | | --- | | For an S1G STA, indicates that the secondary 2 MHz channel is busy according to the rules specified in 24.3.17.5.5 (CCA sensitivity for signals not occupying the pri­mary 2 MHz channel). | |
| secondary4 | |  | | --- | | For an S1G STA, indicates that the secondary 4 MHz channel is busy according to the rules specified in 24.3.17.5.5 (CCA sensitivity for signals not occupying the pri­mary 2 MHz channel). | |
| secondary8 | |  | | --- | | For an S1G STA, indicates that the secondary 8 MHz channel is busy according to the rules specified in 24.3.17.5.5 (CCA sensitivity for signals not occupying the pri­mary 2 MHz channel). | |