IEEE P802.11
Wireless LANs

|  |
| --- |
| PHY CCA |
| Date: 2014-07-17 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Liwen Chu | Marvell |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Abstract

This submission proposes comment resolutions for subclause 7.3.5.12.2 and 9.21.2.9a:

3229, 3691, 3315.

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.***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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. | ReviseDiscussion: 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 11-14/932r1 |
| 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: Per 24.3.17.5.4, primary2 also means primary1 is not busy. There are three places for CCA indication in 11ah: 7.3.5.12, 9.21.2.9a and 24.3.17.5. They should be consistent. Idle 1MHz primary channel is missing from some columns of Table 9-10a.TGah Editor:TGah editor to make changes shown in 11-14/932r1 |
| 3315 | 9.21.2.9a | 256 | 12 | The list of idle channels seems incomplete. For example, shouldn't the primary1 and secondary1 be idle if secondary2 is in the element? | Complete the list of idle channels for each row. | Revise.Discussion: There are three places for CCA indication in 11ah: 7.3.5.12, 9.21.2.9a and 24.3.17.5. They should be consistent. Idle 1MHz primary channeland secondary 1MHz channel is missing from some columns of Table 9-10a. TGah Editor:TGah editor to make changes shown in 11-14/932r1 |

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.

9.21.2.9a EDCA channel access in an S1G BSS

***TGah Editor***: Change Table 9-10a as follows:

Table 9-10a—Channels indicated idle by the channel-list parameter

|  |  |
| --- | --- |
| **PHY-CCA.indication channel-list element** | **Idle channels** |
| primary1 | None |
| primary2 | primary 1 MHz channel |
| secondary2 | Primary 1MHz channel, Secondary 1MHz channel, primary 2 MHz channel |
| secondary4 | Primary 1MHz channel, Secondary 1MHz channel, primary 2 MHz channel and secondary 2 MHz channel |
| secondary8 | Primary 1MHz channel, Secondary 1MHz channel, primary 2 MHz channel, secondary 2 MHz channel and secondary 4 MHz channel |