IEEE P802.11
Wireless LANs

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| LB 200 CID 2165 comment resolution |
| Date: 2014-01-20 |
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Abstract

This submission proposes a comment resolution of the CID 2165 from TGah Draft 1.0.

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** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 2165 | 165 | 9.17b | As the calculation result, different STAs may have the same PARTIAL\_AID but we cannot provide the same PARTIAL\_AID to different STAs all the time. Hence it seems to be strange to include a case, more than one individually addressed MPDUs, to use Table 9-19b or Table 9-19c. | Remove "one or more" from line 35. | Revised- An S1G SU PPDU can include multiple MPDUs having the same RA address. Also, the same sentence is also used in 11ac. There is no issue. But, in Table 9-19c, the PAID rule of an individually addressed MPDU needs to specify the exception case of the control frame. TGah editor to make changes shown in 11-14-0069r0. |

**CID 2165**

**Discussion:**

According Table 9-19c, the Partial AID (PAID) of RTC/CTS frame is set to either (dec(BSSID[39:47])mod(2^9-1))+1 or
(dec(AID[0:8])+dec(BSSID[44:47] *XOR* BSSID[40:43])×2^5)mod 2^6.

So, 3rd party STA may filter out RTS/CTS frame because the PAID is not matched. The virtual CS mechanism can not work because 3rd party STA does not set the NAV.

The PAID of control frames (e.g., RTS, CTS, ACK, Block ACK, etc) is set to 0, in order to prevent filtering of the control frames

**Propose:**

Revised for CID 2165, per discussion and editing instructions in 11-14/0069r0.

***TGah editor: Modify Table 9-19c as the following:***

* Group ID, partial AID, UPLINK and Color in S1G PPDUs

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| * Settings for the TXVECTOR parameters PARTIAL\_AID for non-1MHz PPDUs and non-NDP frames
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| Condition | PARTIAL\_AID |
| Addressed to AP, except when a control frame is addressed to AP | (*dec*(BSSID[39:47])*mod*(29-1))+1 |
| Sent by an AP and addressed to a STA associated with that AP or sent by a DLS or TDLS STA in a direct path to a DLS or TDLS peer STA , except when a control frame is addressed to a STA | (*dec*(AID[0:8])+*dec*(BSSID[44:47] BSSID[40:43])×25)*mod* 26 (9-8c)where is a bitwise exclusive OR operation*mod* X indicates the X-modulo operation*dec*(A[*b*:*c*]) is the cast to decimal operator where *b* is scaled by 20 and *c* by 2*c-b* |
|
| Otherwise | 0 |

***TGah editor: Modify the last paragraphs of 9.17b as the following:***

A STA transmitting an S1G PPDU that is not a 1 MHz PPDU and is not an NDP frame and that is addressed to an AP need not include the TXVECTOR parameter COLOR in the TXVECTOR. A STA transmitting an S1G PPDU that is not a 1 MHz PPDU and is not an NDP frame and that is sent by a DLS or TDLS STA in a direct path to a DLS or TDLS peer STA shall set the TXVECTOR parameter COLOR to the value of the COLOR parameter, if present, from the RXVECTOR of the most recently received frame from its associated AP or from the DO of the IBSS of which it is a member that contained a COLOR parameter, or to 0 if no such frame has been received or the S1G PPDU corresponds to a control frame. An AP transmitting an S1G PPDU that is not a 1 MHz PPDU and is not an NDP frame and that is addressed to a STA that is associated with that AP shall set the TXVECTOR parameter COLOR to a value of its choosing within the range 1 to 7 except for control frames whose TXVECTOR parameter COLOR is set to 0 and shall maintain that value for the duration of the existence of the BSS.(#13/1207r1)