IEEE P802.11
Wireless LANs

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| SB1 Comment Resolutions Miscellaneous Part 1 |
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Abstract

This submission proposes resolutions for multiple comments related to TGah D6.0 as follows:

* 9057, 9064, 9040, 9041, 9047, 9048, 9006

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Provided some more clarifications to CID 9006.

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.***

# PARS I

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| **CID** | **Commenter** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 9057 | Rolfe, Benjamin | 0.0 | Resolution to i-471 is incorrect. The comment identifies a specific technical problem and a specific technical solution. The assertion in the resolution is thus false. No valid technical reason for rejecting the commenter's proposed change is given. | Include the specification requested, an alternate technical change to satisfy the comment, or record a valid technical reason why no change is required to the draft. | Revised –Agree in principle with the commenter. The proposed resolution is the same as for CID 9048 which is very similar in content and proposed change as the cited CID i-471. In addition CID 9048 provides additional details in the proposed change (as requested by the volunteer) to incorporate in the draft.TGah editor to make the changes as instructed by proposed resolution for CID 9048. |
| 9064 | Rolfe, Benjamin | 0.0 | The resolution to i-287 states that "The address count field is not strictly required " yet according to the draft amendment this field is required per Figure 9-586bp. This the reason for rejecting the comment is invalid. | Withdraw the draft from sponsor ballot | Rejected –The quoted portion of the resolution cited by the commenter is only partial and as such it may lead to further ambiguity in interpretation. For completeness we quote the full text: “The address count field is not strictly required but it does not harm either, and the overhead is small. The address count field also enables future extension of this element (possibly even with another variable length field).” which is the proposed resolution for CID i-287.The decision to keep the Address Count field derives from the fact that it provides the intended receiver the total number of addresses that are contained in the element, which is useful in the eventuality that this element is extended in future amendments (e.g., to carry additional information). This would allow the recipient to determine, based on this field, the number of addresses, and ignore any new information contained in the element that is not supported by it. |
| 9040 | Asterjadhi, Alfred | 241.24 | The response to the NDP Paging frame (see 10.44.something) is SIFS or after EDCA contention, as such this statement should be relaxed as well. | Remove "An (NDP) PS-Poll frame or uplink trigger frame that is a response to an NDP Paging frame" and add the following to the last sentence at the last paragraph: " and by an S1G STA for an (NDP) PS-Poll frame or uplink trigger frames that is a response to an NDP Paging frame (see 10.44.6(NDP Paging Setup))". | Accepted |
| 9041 | Asterjadhi, Alfred | 245.61 | The new addition in the first sentence of this paragraph (as part of resolutoin of 8470) from the last SB makes this sentence applicable to member PPDUs only, excluding the nonmember PPDUs. Though this should apply to both member and non-member PPDUs. The original proposed change of 8470 provides a better nonconflicting resolutoin and also solves the following issues: The RID counter shall start only when it is updated (because otherwise it is continuing countign down as usual. Also that updated the NAV as described in 9.xxx is not needed since the RID is not called whenever the Duration field is valid (i.e., even if it does not set the NAV). | Replace the sentence with (inline with 8470):"If the RID counter is updated then it shall start counting down at the end of the received S1G PPDU, except when the PPDU either contains a valid nonzero Duration field that is used for setting the NAV or it is intended to the S1G STA." | Revised –Agree in principle with the comment. Proposed resolution accounts for the suggested change.Note to editor: Correct page and line is P245L29.TGah editor to make the changes shown in 11-16/0458r1 under all headings that include CID 9041. |
| 9047 | Asterjadhi, Alfred | 245.22 | "If the classification of a PPDU is changed from member to nonmember PPDU, then the STA shall reload the RID counter to the value that the RID counter had at the time of the receipt of the PHY-RX-START.indication primitive corresponding to this PPDU minus the difference between the current time and that time." is missing the condition of updating the RID counter according to the rules followed for non-member PPDUs. | Replace the quoted text with:"If the classification of a PPDU is changed from member to nonmember PPDU, then the STA shall:\* Reload the RID counter to the value that the RID counter had at the time of the receipt of the PHY-RXSTART.indication primitive corresponding to this PPDU minus the difference between the current time and that time and\* Update the RID counter according to the rules for a non-member PPDU".Note to editor: The second bullet is the only inserted text (the rest is paragraph organization as itemized text). | Revised –Agree in principle with the comment. Proposed resolution accounts for the suggested change.TGah editor to make the changes shown in 11-16/0458r1 under all headings that include CID 9047. |
| 9048 | Asterjadhi, Alfred | 344.12 | PV1 frames of Type 3 (with both MAC addresses) can still be sent in an IBSS setting. Allow this case. Also obviously non-S1G STAs do not transmit PV1 frames because there is no capability bit in their capabilities element. | Specify that an IBSS STA is allowed to transmit PV1 frames of Type 3 if supported by the receiver. I.e., replace the last sentence of this paragraph with "An S1G STA in an IBSS shall not transmit PV1 frames with a value of the Type subfield equal to 0 or 1." | Accepted |
| 9006 | Aboulmagd, Osama | 536.8 | It sounds very strange that CTS is only an optional for S1G. In this case, what would be the response to a RTS frame- nothing. Additional It is not clear what VHTM3.1 has anything to do with CTS. | Clarify | Rejected –The normative behavior related to responses to RTS frames can already be found in 10.3.2.7 (CTS and DMG CTS procedure) where in particular it is specified that the default response is an NDP CTS frame, quoting in P249L15:“An S1G STA shall transmit NDP CTS frames instead of CTS frames with the following exception: transmission of an CTS frame is required if the link adaptation procedure is negotiated as described in 10.31 (Link adaptation).”In addition VHTM3.1 determines the activation of the link adaptation procedure that requires an HT Control field in the response frame, which can be carried only in a CTS frame, rather than the NDP CTS frame. As such CTS frame is needed if VHTM3.1 is implemented. |

*Changes to D6.0 related to CID 9040:*

**10.3.2.3.3 SIFS**

***Change the 2nd paragraph of the subclause as follows:***

The SIFS shall be used prior to transmission of each of the following frames:

* A~~a~~n (NDP) Ack frame, a TACK frame, a STACK frame, NDP PS-Poll-Ack frame, a (NDP) CTS frame,
* A~~a~~ PPDU containing a BlockAck frame, NDP BlockAck frame or BAT frame that is an immediate response to either a BlockAckReq frame or an A-MPDU,
* A~~a~~ DMG CTS frame, a DMG DTS frame, a Grant Ack frame,
* A~~a~~ response frame transmitted in the ATI, the second or subsequent MPDU of a fragment burst, and by a STA responding to any polling by the PCF~~.~~,
* A frame within a series of NDP sector training frames transmitted by an S1G AP after a sector training announcement
* An RTS frame that is sent as an immediate response to a PS-Poll(+BDT) frame.

The SIFS may also be used by a PC for any types of frames during the CFP (see 10.4 (PCF)) and by an S1G STA for an (NDP) PS-Poll frame or uplink trigger frames that is a response to an NDP Paging frame (see 10.44.6(NDP Paging Setup)).

*Changes to D6.0 related to CID 9041 and 9047:*

**10.3.2.4a.1 General**

**TGah Editor: *Change the paragraph below as follows (#9047):***

Because the PARTIAL\_AID and COLOR values obtained from received PPDUs are not globally unique, an S1G STA that has classified a PPDU as a member PPDU based on PARTIAL\_AID and/or COLOR may additionally use the information contained in a valid MAC header (i.e., neither A1 nor A2 field contain a MAC address that corresponds to a STA that is a member of the same BSS as known at the STA) from an MPDU carried in the received PPDU to change the classification of the PPDU to a nonmember PPDU. If the classification of a PPDU is changed from member to nonmember PPDU, then the STA shall:

* Reload the RID counter to the value that the RID counter had at the time of the receipt of the PHY-RXSTART.indication primitive corresponding to this PPDU minus the difference between the current time and that time and
* Update the RID counter according to the rules for a nonmember PPDU.

**TGah Editor: *Change the paragraph below as follows (#9041):***

If the RID counter is updated then it shall start counting down at the end of the received S1G PPDU, except when the PPDU either contains a valid nonzero Duration field that is used for setting the NAV, as described in 10.3.2.4 (Setting and resetting the NAV), or it is intended to the S1G STA. In both of these cases the RID shall be reset.

**10.55 Generation of PV1 MPDUs and header compression procedure**

*Changes to D6.0 related to CID 9048:*

After association, an S1G STA with dot11PV1MACHeaderOptionImplemented equal to true may transmit Header Compression frames and PV1 frames. An S1G STA shall not transmit PV1 frames with Type subfield equal to 3 to a peer STA unless the PV1 Data Type 3 Supported subfield is 1 in the most recently received Header Compression element sent by the peer STA. An S1G STA in an IBSS shall not transmit PV1 frames with a value of the Type subfield equal to 0 or 1.