IEEE P802.11  
Wireless LANs

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| Comment Resolutions for Clause 9.3.2.7 | | | | |
| Date: 2014-09-02 | | | | |
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Abstract

This submission proposes comment resolutions for subclause 9.3.2.7:

3343, 3679, 3759, 3760, 3809***.***

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** |
| 3343 | 9.3.2.7 | 229 | 31 | " In case the NDP CTS frame is a CTS-to-self, the value in the ..." This sentence should be moved to sublause 9.3.2.11 instead of referring to it. Also replace "Ack" with (NDP) Ack. | As in comment. | Revise  Discussion: Generally agree with the comment.  TGah editor makes the changes in 11-14/1251r0 under CID 3343, 3760 |
| 3679 | 9.3.2.7 | 229 | 22 | The second sentence in the paragraph in line 22 page 229 is completely extra. Why do we need to specify non-S1G STA shall not use NDP CTS? It may actually cause some forward compatibility concern. | delete the 2nd sentence in the paragraph in line 22 page 229, i.e., A non-S1G STA shall not transmit NDP CTS frames. | Reject  Discussion: when a new amendment is added to 802.11 psecification, the descipiton like “that is not NEWAMENDMENT STA, (e.g. DMG STA)” is used to show that other band/legacy STAs don’t support new defined frames etc. |
| 3759 | 9.3.2.7 | 228 | 37 | Once a STA set NAV, the STA can set TXOP holder address also. However, RID has a different story. Probably a STA can set RID without getting TXOP holder's MAC address. |  | Reject  Discussion: RID may include TXOP holder MAC address so the statement is ok. |
| 3760 | 9.3.2.7 | 229 | 21 | NDP CTS may not be able to carry required information by the RTS/CTS exchange. | Allow normal CTS when the RTS/CTS exchange need CTS to carry required information. | Revise  Discussion: When RTS and CTS are used for link adaptation, normal CTS is needed.  TGah editor makes the changes in 11-14/1251r0 under CID 3343, 3760 |
| 3809 | 9.3.2.7 | 229 | 21 | The improvement of NDP CTS frame compared with normal CTS frame is less when the BSS operation bandwidth is >=2MHz. The STA that works in >=2MHz BSS should be able to indicate whether it support NDP CTS or not. | As proposed in comment. | Reject  Discussion: NDP CTS is robust than normal CTS. |

**9.3.2.7 CTS and DMG CTS procedure**

***TGah Editor: Insert the following paragraphs at the end of subclause 9.3.2.7 as follows (CID 3343, 3760):***

An S1G STA shall transmit NDP CTS frames instead of CTS frames with the following exception: transmission of an CTS frame is required if link adaptation procedure is negotiated as described in 9.31 (Link adaptation). A non-S1G STA shall not transmit NDP CTS frames.

The RA field of the NDP CTS shall be generated as described in 8.9.1.1 (NDP CTS). The Duration field in the NDP CTS frame shall be set to the same value as the Duration field from the received RTS frame, adjusted by subtraction of aSIFSTime and the NDPTxTime required to transmit the NDP CTS frame, where NDPTxTime is calculated according to 9.3.2.4a (Setting and resetting the RID).

An S1G STA that receives an NDP CTS frame shall follow the rules described in this subclause for CTS frame reception if any of the following conditions are satisfied:

—The value of the Address Indicator field is equal to 0 and the value of the RA/PBSSID field indicates that the S1G STA is not the intended receiver of this frame.

—The value of the Address Indicator field is equal to 1, and the value of the Early Sector Indicator field is equal to 0, and the value of the RA/PBSSID field is not equal to the PBSSID of the AP with which the non-AP STA is associated.

—The value of the Address Indicator field is equal to 1, and the value of the Early Sector Indication field is equal to 1, and the value of the RA/PBSSID is equal to the PBSSID of the AP with which the non AP- STA is associated.

An S1G STA that receives an NDP CTS frame should disregard the value of the Duration field of the NDP CTS frame if any of the following conditions are satisfied:

—The value of the Address Indicator field is equal to 1, and the value of the Early Sector Indicator field is equal to 0, and the value of the RA/PBSSID field is equal to the PBSSID of the AP with which the non-AP STA is associated to.

—The value of the Address Indicator field is equal to 1, and the value of the Early Sector Indicator field is equal to 1, and the value of the RA/PBSSID is not equal to the PBSSID of the AP with which the non-AP STA is associated.

An S1G AP that receives an NDP CTS frame with a value of the Address Indicator field equal to 1 shall compare the value of the RA/PBSSID field with its own PBSSID value for the purpose of checking that any of the conditions listed above are satisfied.

**9.3.2.13 NAV distribution**

***TGah Editor: Insert the following paragraphs at the end of subclause 9.3.2.13 as follows (CID 3343, 3760):***

When the NDP CTS frame is a CTS-to-self, the value in the Duration field of the NDP CTS frame shall protect the pending transmission plus possibly an (NDP) Ack frame.