IEEE P802.11  
Wireless LANs

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| Comment Collection 09 MAC CIDs (Comment Resolutions for CC09) | | | | |
| Date: 2013-07-16 | | | | |
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Abstract

This document provides resolutions for CIDs 169 and 170 from TGah Draft 0.1 Command Collection 9

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| --- | --- | --- | --- | --- | --- |
| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Decision** |
| 169 | 45 | 8.3.4a.1.1 | STA and AP behavior based on RA or PBSSID field in NDP CTS not spelled out explicitly in draft | There should be a description as follows: "A STA shall follow the conventional rule as for a CTS frame receipt, except if the NDP CTS contains a PBSSID and the PBSSID is identical to the PBSSID of the BSS then a STA shall reset its NAV to zero. In all other cases, a STA shall set a NAV for a duration indicated by the Duration field in NDP CTS." | Revised |
| 170 | 45 | 8.3.4a.1.1 | The word "Address" is already in RA in the field "RA Address" | "RA Address" to be replaced by "RA" | Accepted |

**Discussion**

The comment suggests including STA behavior and NAV settings based on the fields in the NDP CTS frame. Since it is STA behavior, I propose to include the STA behavior in Sub-clause 9.3.2.6 CTS procedure.

**Propose**: I have accepted this comment

**Instructions to the Editor**

***Please modify the paragraph in P122/L62 as follows:***

When dot11S1GOptionImplemented is true, a STA shall support NDP CTS frame and shall use NDP CTS frame unless the CTS response is required to include information that is not present in the fields of the NDP CTS frame.

If the Address Indicator in the NDP CTS frame (8.3.4a.1.1) is set to 0 and the RA/PBSSID field in the NDP CTS frame indicates an RA or if the Address Indicator in the NDP CTS frame is set to 1 and the value of the RA/PBSSID field is not equal to the PBSSID of the AP with which the STA is associated, then a STA receiving the CTS shall follow the rules of clause 9.3.2.6 for a CTS frame reception. If the Address Indicator in the NDP CTS is set to 1 and the value of the RA/PBSSID field is equal to the PBSSID of the AP with which the STA is associated to, then the STA disregards the received NDP CTS frame.

**Discussion**

The comment is straight forward and suggesting removal of redundant words.

**Propose**: I have accepted this comment

**Instructions to the Editor**

***Please modify the sub-clause 8.3.4a.1.1 as follows:***

**8.3.4a.1.1 NDP CTS**

The NDP MAC frame body of the NDP CTS frame contains NDP MAC Frame Type, Address Indicator, RA ~~Address~~ or Partial BSSID, Duration, Early Sector Indicator, Reserved subfields. The SIG field frame format is illustrated in Table 8-33d (NDP MAC frame body of NDP CTS (1 MHz)) and Table 8-33e (NDP MAC frame body of NDP CTS (≥ 2MHz)).

**Table 8-33d—NDP MAC frame body of NDP CTS (1 MHz)**

|  |  |  |
| --- | --- | --- |
| Field | Size (bits) | Description |
| NDP MAC  Frame Type | 3 | NDP MAC Frame Type field is set to 0. |
| Address Indicator | 1 | Indicates whether the following subfield is an RA or a Partial BSSID. This  field is of length 1 bit and when set to 0 indicates that the following field  represents a unicast STA address. In the case that NDP CTS is used in the  sector training, the field is set to the Partial BSSID. The Address Indicator  bit set to 1 indicates that the following field represents a Partial BSSID. |
| RA ~~Address~~ /  Partial BSSID | 9 | RA: PARTIAL\_AID addressed to a STA as described in 9.17b  PBSSID: PARTIAL\_AID addressed to AP as described in 9.17b  Indicates whether the value is an RA or a Partial BSSID. If the value indicates  an RA ~~address~~, then the NDP CTS frame is intended AID for a unicast  STA. If the value indicates a Partial BSSID, then it indicates a  broadcast address (see 9.3.2.6 for STA behavior based on this field). |

**Table 8-33e—NDP MAC frame body of NDP CTS (** ≥ **2MHz)**

|  |  |  |
| --- | --- | --- |
| Field | Size (bits) | Description |
| NDP MAC  Frame Type | 3 | NDP MAC Frame Type field is set to 0. |
| Address Indicator | 1 | Indicates whether the following subfield is an RA or a Partial BSSID. This  field is of length 1 bit and when set to 0 indicates that the following field  represents a unicast STA address. In the case that NDP CTS is used in the  sector training, the field is set to the Partial BSSID. The Address Indicator  bit set to 1 indicates that the following field represents a Partial BSSID. |
| RA ~~Address~~ /  Partial BSSID | 9 | RA: PARTIAL\_AID addressed to a STA as described in 9.17b  PBSSID: PARTIAL\_AID addressed to AP as described in 9.17b  Indicates whether the value is an RA or a Partial BSSID. If the value indicates  an RA, then the NDP CTS frame is intended AID for a unicast STA.  If the value indicates a Partial BSSID, then it indicates a broadcast address (see 9.3.2.6 for STA behavior based on this field) |