IEEE P802.11  
Wireless LANs

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| LB 200 Comment Resolution for Clause 8.9.1.1 and 8.9.1.2 | | | | |
| Date: 2014-09-14 | | | | |
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Abstract

This submission proposes resolution for comments in subclause 8.9.1.1 with the following CIDs: 3091, 3092, 3298, 3299, 3618, 3619, 3749, 3750, 3751, and CID 3093 for comments in subclause 8.9.1.2 of TGah Draft 2.1

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| **CID** | **Clause** | **Page** | **Line** | **Comment** | **Proposed Change** | **Resolution** |
| 3091 | 8.9.1.1.1 | 205 | 35 | COLOR is undefinied. The reader has to search the whole spec to get to some conclusion on the definition and the role of COLOR (that has appeared on top of page 250). | Define COLOR | Rejected  Comment: Subclause 9.20a referred to in the same line defines the COLOR bit definition and interpretation of this bit by STAs. Hence, there is no need to define it explicitly here. |
| 3092 | 8.9.1.1.1 | 206 | 46 | The meaning of this sentence is not clear: "When the NDP CTS frame is used in sector training, the difference between the value of its Duration field and the value of the Duration field in the frame that carried the NDP announcement that initiated the sector training identifying the sector ID to which the NDP CTS is transmitted." It's not clear what to do with the difference between between the two Duration fileds ... | Rewrite it. Also the same for P205L50. | Revised  Comment: Agreed in principle; deleted the sentence since the interpretation of the Duration field is illustrated in subclause 9.42g (Sectorized beam operation).  The TGah Editor to modify the text as indicated in the document  doc.: IEEE 802.11-14/1183r0 under CID 3092 |
| 3298 | 8.9.1.1 | 205 | 32 | This paragraph and the next one can be merged to remove the existing redundancy. | Replace these two paragraphs with: "The RA/Partial BSSID) field contains:  -- RA: the partial AID of the receiving non-AP STA or the partial BSSID of the receiving AP as described in 9.19a  -- Partial BSSID: the partial BSSID of the transmitting AP as described in 9.19a.  When the Address Indicator field is 0, the RA/Partial BSSID field contains the partial identifier of the receiving STA. When the Address Indicator field is 1, it contains the partial BSSID of the AP transmitting the frame and is interpreted as a broadcast address (see 9.3.2.7 for the receiving STA's behavior). When this frame is used in sector training the field contains the partial BSSID of the AP transmitting the frame."    Same for NDP\_2M CTS in 8.9.1.2. | Revised  The TGah Editor to modify the text as indicated in the document  doc.: IEEE 802.11-14/1183r0 under CID 3298 |
| 3299 | 8.9.1.1 | 205 | 47 | The duration field always indicates the duration of time for NAV protection. So no need to say this for sync frame. And in the next paragraph the sentence is incomplete. | remove the last sentence of this paragraph. And clarify what the next paragraph means as it is unclear for what is the difference between the values is used. Same for NDP\_2M CTS. in 8.9.1.2. | Revised  The TGah Editor to modify the text as indicated in the document  doc.: IEEE 802.11-14/1183r0 under CID 3299 |
| 3618 | 8.9.1.1.1 | 205 | 27 | There are two paragraphs describing the Address Indicator field in NDP CTS frame in 8.9.1.1.1 and two has different meaning of one field. It may give us ambiguity of the field. Please make two things one paragraph and clarify the meaning of the field. | Please make two paragraphs about description of Address Indicator field one paragraph and clarify the meaning of the field. | Revised  The TGah Editor to modify the text as indicated in the document  doc.: IEEE 802.11-14/1183r0 under CID 3298 |
| 3619 | 8.9.1.1.2 | 206 | 23 | There are two paragraphs describing the Address Indicator field in NDP CTS frame in 8.9.1.1.2 and two has different meaning of one field. It may give us ambiguity of the field. Please make two things one paragraph and clarify the meaning of the field. | Please make two paragraphs about description of Address Indicator field one paragraph and clarify the meaning of the field. | Revised  The TGah Editor to modify the text as indicated in the document  doc.: IEEE 802.11-14/1183r0 under CID 3298 |
| 3749 | 8.9.1.1.2 | 206 | 29 | RA can be either partial AID or partial BSSID since it is used when the value in Address Indicator field is 0. | Change to "RA: partial AID or partial BSSID addressed to a STA/AP as described in 9.19a..." | Revised  The TGah Editor to modify the text as indicated in the document  doc.: IEEE 802.11-14/1183r0 under CID 3298 |
| 3750 | 8.9.1.1.2 | 206 | 35 | Change to "When the Address Indicator field is 0, the RA/Partial BSSID field represents the intended unicast AID or unicast partial BSSID for an individually addressed intended receiver" | As in comment. Please also do the same change for 1MHz NDP CTS. | Revised  The TGah Editor to modify the text as indicated in the document  doc.: IEEE 802.11-14/1183r0 under CID 3298 |
| 3751 | 8.9.1.1.2 | 206 | 37 | Change "when the Address Indicator field is 1, this field represents a broadcast address (see 9.3.2.7 (CTS and DMG CTS procedure) for STA behavior based on this field). When the NDP CTS frame is used in the sector training, this field represents the Partial BSSID of the AP." to "when the Address Indicator field is 1, the Partial BSSID of the AP in this field represents a broadcast address (see 9.3.2.7 (CTS and DMG CTS procedure) for STA behavior based on this field)." | As in comment. Please also do the same change for 1MHz NDP CTS. | Revised  The TGah Editor to modify the text as indicated in the document  doc.: IEEE 802.11-14/1183r0 under CID 3298 |

**CIDs 3091, 3092, 3298, 3299, 3618, 3619, 3749, 3750, 3751**

**Instruction to TGah Editor: Change the existing text in subclause 8.9.1.1 with the following text:**

**8.9.1.1 NDP CTS**

# CID 3298

***Please change the existing paragraphs in Page 208 Line 39 with the following paragraphs:***

~~The Address Indicator field indicates that the RA/Partial BSSID field contains an RA when the value is 0 in this field and it contains a Partial BSSID when the value is 1 in this field. When the NDP CTS frame is used in the sector training, this field is set to 1.~~

The Address Indicator field is set to 0 to indicate that the RA/Partial BSSID field contains the partial identifier of the receiving STA. It is set to 1 to indicate that the RA/Partial BSSID field contains the partial BSSID of the AP transmitting the frame. When the NDP CTS frame is used in the sector training it is set to 1.

The RA/Partial BSSID (PBSSID) field indicates:

—RA: the partial AID ~~addressed to a~~ of the receiving non-AP STA or the partial BSSID of the receiving AP as described in 9.19a ~~as described in 9.20a (Group ID, partial AID, Uplink Indication and COLOR in S1G PPDUs)~~

—Partial BSSID: the partial ~~A~~BSSID ~~addressed to~~ of the transmitting AP as described in 9.19a~~9.20a (Group ID, partial AID, Uplink Indication and COLOR in S1G PPDUs)~~

When the Address Indicator field is 0, the RA/Partial BSSID field contains the partial identifier of the receiving STA. ~~represents the intended AID for an individually addressed intended receiver; w~~When the Address Indicator field is 1, ~~this field represents a broadcast address (see 9.3.2.7 (CTS and DMG CTS procedure) for STA behavior based on this field). When the NDP CTS frame is used in the sector training, this field represents the Partial BSSID of the AP.~~it contains the partial BSSID of the AP transmitting the frame and is interpreted as a broadcast address (see 9.3.2.7 for the receiving STA's behavior). When this frame is used in sector training the field contains the partial BSSID of the AP transmitting the frame.

***Please change the existing paragraphs in Page 209 Line 28 with the following paragraphs:***

~~The Address Indicator field indicates~~ ~~that the RA/Partial BSSID field contains an RA when the value is 0 in this field and it contains a Partial BSSID when the value is 1 in this field~~. ~~When the NDP CTS frame is used in the sector training, this field is set to 1.~~

The Address Indicator field is set to 0 to indicate that the RA/Partial BSSID field contains the partial identifier of the receiving STA. It is set to 1 to indicate that the RA/Partial BSSID field contains the partial BSSID of the AP transmitting the frame. When the NDP CTS frame is used in the sector training it is set to 1.

The RA/Partial BSSID (PBSSID) field indicates:

—RA: the partial AID ~~addressed to a~~ of the receiving non-AP STA or the partial BSSID of the receiving AP as described in 9.19a ~~as described in 9.20a (Group ID, partial AID, Uplink Indication and COLOR in S1G PPDUs)~~

—Partial BSSID: the partial ~~A~~BSSID ~~addressed to~~ of the transmitting AP as described in 9.19a~~9.20a (Group ID, partial AID, Uplink Indication and COLOR in S1G PPDUs)~~

When the Address Indicator field is 0, the RA/Partial BSSID field contains the partial identifier of the receiving STA. ~~represents the intended AID for an individually addressed intended receiver; w~~When the Address Indicator field is 1, ~~this field represents a broadcast address (see 9.3.2.7 (CTS and DMG CTS procedure) for STA behavior based on this field). When the NDP CTS frame is used in the sector training, this field represents the Partial BSSID of the AP.~~it contains the partial BSSID of the AP transmitting the frame and is interpreted as a broadcast address (see 9.3.2.7 for the receiving STA's behavior). When this frame is used in sector training the field contains the partial BSSID of the AP transmitting the frame

# CIDs 3092 and 3299

***Please change the existing paragraphs in Page 208 Line 58 with the following paragraphs:***

The Duration field is expressed in units of OFDM symbol duration (40 us) (Table 24-4 (Timing-related constants)) and follows the definitions in 8.3.1.3 (CTS frame format). ~~When the NDP CTS frame is used as a sync frame, the value in this field indicates the duration of time for NAV protection.~~

~~When the NDP CTS frame is used in sector training, the difference between the value of its Duration field and the value of the Duration field in the frame that carried the NDP announcement that initiated the sector training identifying the sector ID to which the NDP CTS is transmitted.~~

***Please change the existing paragraphs in Page 209 Line 47 with the following paragraphs:***

The Duration field is expressed in units of ~~us~~ microseconds and follows the definitions in 8.3.1.3 (CTS frame format). ~~When the NDP CTS frame is used as a sync frame, the value in this field indicates the duration of time for NAV protection.~~

~~When the NDP CTS frame is used in sector training, the difference between the value of its Duration field and the value of the Duration field in the frame that carried the NDP announcement that initiated the sector training identifying the sector ID to which the NDP CTS is transmitted.~~

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| **CID** | **Clause** | **Page** | **Line** | **Comment** | **Proposed Change** | **Resolution** |
| 3093 | 8.9.1.2.2 | 207 | 58 | Either use "us" or "\micro s" for microseconds. There are different ways shwoing throughout the draft; e.g. see P206L42, P207L28, P207L58, P210L40, P212L43 ... | Use the same symbol for microseconds. | Revised  The TGah Editor to modify the text as indicated in the document  doc.: IEEE 802.11-14/1183r0 under CID 3093 |

**Instruction to TGah Editor: Change the existing text in subclause 8.9.1.2 with the following text:**

**8.9.1.2 NDP CF-End**

**# CID 3093**

***Please change the existing line in Page 210 Line 56 with the following line:***

The Duration field is expressed in units of ~~us~~ microseconds and follows the definitions in 8.3.1.6 (CF-End frame format).