IEEE P802.11  
Wireless LANs

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| LB203 MAC Resolution to Comments in D2.0 subclauses 8.4.2.170r, 8.6.24.5, 9.21.5.8, 9.7.6.5.4a, 9.17, and 9.43 | | | | |
| Date: 2014-9-1 | | | | |
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Abstract

This submission proposes resolution to comments in D2.0 subclauses 8.4.2.170r, 8.6.24.5, 9.21.5.8, 9.7.6.5.4a, 9.17, and 9.43. There are 7 CIDs: 3273, 3290, 3786, 3129, 3331, 3131 and 3784.

Revision History:

Rev1: Add Doc # in “instruction to editor” and minor correction to CID 3290

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.Line** | **Clause** | **Comment** | **Propose Change** | **Resolution** |
| 3273 | 160.57 | 8.4.2.170r | It seems that the Association ID field here should be the same as in 8.4.1.8. | Clarify by adding a reference to 8.4.1.8. | Revise  Agree to the commenter.  TGah editor to make the changes showin in 11-14/1113r1 under all headings that include CID 3273. |
| 3290 | 180.9 | 8.6.24.5 | These two sentences can be improved grammatically. | Replace the 2nd and 3rd sentence of 1st paragraph with: "It is used by the AP to convey the updated AIDs of STAs to a peer STA. In addition, it is used by a Relay to convey to the AP the AID of a newly associated STA or to convey the updated AID of a STA that is already associated to the Relay. | Revise  Agree to the commenter in principle.  TGah editor to make the changes showin in 11-14/1113r1 under all headings that include CID 3290. |
| 3331 | 263.5.2 | 9.21.5.8 | The non-AP STA behavior is missing in the subclause. Also it is not clear what "the allocated resource for PRAW" is. In addition it is not clear how the non-AP STA knows that the received PRAW information is the most up to date. | As in comment. | Revise  TGah editor to make the changes showin in 11-14/1113r1 under all headings that include CID 3331, 3784. |
| 3784 | 263.5.3 | 9.21.5.8 | "Transmitting PRAW assignment information are following:  1), If an AP allocates more than one PRAW assignments, all active PRAW assignments shall be included in one or more RPS elements in the same S1G Beacon frame.  2), An AP may send another RPS element with PRAW assignments before next scheduled PRAW indication time.  It is still not clear at what period that the PRAW assignment information is broadcasted. When a new STA joins the BSS and the PRAW information is not broadcasted after its joining, the STA may transmit frames during the allocated PRAW which violate RAW protection rules." | Clarify it. | Revise  TGah editor to make the changes showin in 11-14/1113r1 under all headings that include CID 3331, 3784. |
| 3786 | 243.86 | 9.7.6.5.4a | Asymmetric Block Ack and Control Response MCS negotiation is similar and should be merged. Currently it is not clear when both control response and asymmetric block ack are negotiated, which rules should be used to select BA's MCS? | Merge them. | Reject.  The negotiation process of the Asymmetric BA and Control response MCS negotiation are different. Asymmetric BA follows the same process of BA setup and tear down with exchanges of management / action frames. The control response MCS negotiation is used for generic control frames. |
| 3129 | 249.20 | 9.17 | Typo: "dot11ShortGIOptionIn1MActivated should be "dot11ShortGIOptionIn2MActivated". Also what does it mean that the MIB variable is present? Shouldn't the variable be always there for an S1G STA? | As in comment. | Revised  Agree in principle.  TGah editor to make the changes showin in 11-14/1113r1 under all headings that include CID 3129.  Response to the querstion: a S1G STA may not implement all those MIBs |
| 3131 | 279.60 | 9.43 | Definition of a non-TIM STA is missing. Insert "A non-TIM STA is an S1G STA with dot11NonTIMModeActivated equal to true" | As in comment. | Reject.  Non-TIM STA has been defined in clause 3.2 (Definitions specific to IEEE 802.11) |

**[CID 3273]**

**Instruction to TGah editor: Please change the last paragraph in subclause 8.4.2.170s AID Announcement element) of TGah D2.1 as follows:**

* AID Announcement element

…

The STA MAC Address field indicates the MAC Address of STA. The Association ID field, which has the same format as the AID field described in 8.4.1.8 (AID field), includes the AID for the corresponding STA. If AID Announcement element is included in a frame that is transmitted by a relay STA(#3436) and the Association ID field equals to 0, the STA MAC Address field indicates the BSSID of the relay AP(#3436).

**[CID 3290]**

**Instruction to TGah editor: Please change the 1st paragraph in subclause 8.6.23a.5(STA Information Announcement frame format) of TGah D2.1 as follows:**

* STA Information Announcement frame format

The STA Information Announcement frame is an Action frame of category S1G. It is either used by a non-AP STA to inform the peer STAs of the updated AID ~~information~~ when a STA's AID is changed~~. Also, it is~~ or used by a relay(#3434) STA(#3212) to ~~indicate~~ inform the AP of an newly associated STA's AID ~~to the AP when the STA becomes associated~~ or the updated AID when a STA's AID is changed. The Action field of the STA Information Announcement frame contains the information shown in Table 8-406a5 (STA Information Announcement frame action field format).

**[CID 3129]**

**Instruction to TGah editor: Please change the 6th paragraph in subclause 9.18 (Short GI operation) of TGah D2.1 as follows:**

**9.18 Short GI operation**

* An S1G STA may transmit a frame with TXVECTOR parameters NUM\_USERS set to greater than 1, and GI\_TYPE set to SHORT\_GI only if all of the following conditions are met:
* The RAs of all MPDUs in the S1G MU PPDU correspond to STAs for which the Short GI subfield of the following conditions are satisfied:
  + If the TXVECTOR parameter CH\_BANDWIDTH is set to CBW2, the Short GI for 2MHz subfields of the S1G Capabilities element contained a value of 1, and ~~dot11ShortGIOptionIn1MActivated~~ dot11ShortGIOptionIn2MActivated is present and is true.

**[CID 3331, 3784]**

***Discussion:***

*Non-AP STAs access the channel according to parameters in the RAW Assignment subfield of the PRAW. The allocated resource refers to the restricted channel access. Non-AP STA treats most recently successfully received PRAW information as most up-to-date.*

*AP does not need to send PRAW information periodically. When a new STA is joining the BSS, AP may indicate PRAW in probe response or in subsequent beacon after the STA has joined.*

**Instruction to TGah editor: Please change the paragraph starting at Line 7 of Page 267 of TGah D2.1 as follows:**

PRAW allocation may be indicated by an RPS element included in S1G Beacon and/or Probe Response frames. Once a PRAW is allocated, the allocation indication is broadcasted by the AP ~~periodically~~ such that every TIM STA can identify the allocation of PRAW. However, it is not necessary for an AP to indicate the PRAW allocation in every S1G Beacon frame transmitted in the beacon interval for which PRAW is allocated. The ~~allocated resource~~ parameters in the RAW Assignment subfield for PRAW shall not be changed until updated PRAW information is broadcasted. A non-AP STA updates the PRAW information and accesses the channel ~~accordingly based on the most recently successfully received PRAW indication~~ according to the parameters in the RAW Assignment subfield of the PRAW indicated by the Periodic Operation Parameters subfield of the most recently received RPS element.