IEEE P802.11
Wireless LANs

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| LB203 MAC Resolution to Subclauses 8.4.1.6, 8.4.1.15a, 8.4.1.49b, 8.4.1.50, 8.4.1.56 and 8.4.1.58 Comments |
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Abstract

This submission proposes resolution to comments in subclauses 8.4.1.6, 8.4.1.15a, 8.4.1.49b, 8.4.1.50, 8.4.1.56 and 8.4.1.58. There are 10 CIDs: 3710, 3243, 3245, 3246, 3247, 3989, 3248, 3249, 3639, 3972

Revision History:

Rev 1: add doc # in “instruction to editor” and amendment to CID 3248

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.***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Page.Line** | **Clause** | **Comment** | **Propose Change** | **Resolution** |
| 3710 | 95.44 | 8.4.1.6 | "it is used to indicate to an AP the duration during which a STA with dot11NonTIMModeActivated equal to true is required to transmit at least one frame that is addressed to the associated AP"This is not like a Listen Interval. It is like a sleep interval/special sleep mode." | Move this non listen interval under WNM-sleep mode. | Reject. This feature is for S1G STA as agreed by 11ah TG in Specification Framework Document.  |
| 3243 | 97.47 | 8.4.1.15a | The description of what the MCS field indicates is missing. | Describe the content of the MCS subfield. | RevisedAgree in principle. TGah editor to make the changes showin in 11-14/1114r1 under all headings that include CID 3243. |
| 3245 | 98.36 | 8.4.1.49b | How do you differentiate between feedback type SU and MU. Please clarify. | As in comment. | RevisedAgree in principle. TGah editor to make the changes showin in 11-14/1114r1 under all headings that include CID 3245. |
| 3246 | 99.61 | 8.4.1.50 | There is no 8.6.24.13 (S1G Operating mode notification frame). It seems the VHT frame is used but the reference to that is missing so fix this reference. | As in comment. | RevisedThe reference should be removed as it has the same format as the VHT frame. It is also not necessary to modify 1st paragraph of the subclause in the baseline draft. TGah editor to make the changes showin in 11-14/1114r1 under all headings that include CID 3246. |
| 3247 | 100.01 | 8.4.1.50 | This Operating Mode field for a VHT STA... Actually simply say for a non-S1G STA. And from a quick look it seems that this subclause has changes with respect to D3.0 of REVmc. Make sure the changes are inline with the baseline. | As in comment. | Revised. Agree in principle. TGah editor to make the changes show in 11-14/1114r1 under the heading that includes CID 3247 for the 1st part of the comment. CID 3130 supersedes the 2nd part, i.e. the alignment to REVmc D3.0 has been done accordingly (14/0907).  |
| 3989 | 101.07 | 8.4.1.50 | "For a non-S1G STA", need to be more specific. DMG is also a non-S1G STA but those rates don't apply to it | replace with "for VHT STA" | Revised. Agree in principle. This CID is superseded by CID 3130 and the text is revised to align to REVmc D3.0 as in 14/0907. |
| 3248 | 102.38 | 8.4.1.56 | There is another case. Insert at the end of the sentence: " or for the duration of a TXOP". | As in comment. | RevisedAgree in principle. TGah editor to make the changes showin in 11-14/1114r1 under all headings that include CID 3248. |
| 3249 | 103.24 | 8.4.1.58 | I could not find where the Response Requested field is located in the figure above. But in this case it is not clear why is the Next TWT Request field needed? | If needed replace "Reserved" with Response Requested in the first reserved field of the field format after checking that both fields are needed. | Revised. Agree in principle. Instruction to TGah editor: please replace “Reserved” under B3 with “Response Requested” in Figure 8-118a3—TWT Information field format of subclause 8.4.1.57c (TWT Information field) of D2.1.  |
| 3639 | 103.10 | 8.4.1.58 | "Reserved" should be "Response Requested" | As comment. | Revised. Agree in principle. (superseded by CID 3249) Instruction to TGah editor: please replace “Reserved” under B3 with “Response Requested” in Figure 8-118a3—TWT Information field format of subclause 8.4.1.57c (TWT Information field) of D2.1. |
| 3972 | 203.02 | 8.4.1.32 | Table 8-41b (P95L14) implies that an S1G STA may support FMS. As an FMS Request frame and an FMS Response frame contains a Rate Identification field, it is necessary to amend 8.4.1.32 (Rate Identification field) to include S1G MCS parameters. | "1) Insert ""In frames transmitted by a VHT STA, "" at the begging of 4tn, 5th, 7th, 9th, and 14th paragraphs of the subclause 8.4.1.32 of P802.11mc D3.0 (P670L54, P670L59, P671L6, P671L17, and P671L41).2) Insert following texts at the appropriate places of the subclause 8.4.1.32 of P802.11mc D3.0.---In frames transmitted by an S1G STA, the MCS Selector field value 3 indicates that the MCS Index field specifies values that are taken fromTable 24-42 (S1G MCSs for 2 MHz, NSS = 1) to Table 22-45 (S1G MCSs for 2 MHz, NSS = 4), indicating a S1G-MCS for a 2 MHz channel width.In frames transmitted by an S1G STA, the MCS Selector field value 4 indicates that the MCS Index field specifies values that are taken fromTable 24-46 (S1G MCSs for 4 MHz, NSS = 1) to Table 22-49 (S1G MCSs for 4 MHz, NSS = 4), indicating a S1G-MCS for a 4 MHz channel width.In frames transmitted by an S1G STA, the MCS Selector field value 5 indicates that the MCS Index field specifies values that are taken fromTable 24-50 (S1G MCSs for 8 MHz, NSS = 1) to Table 22-53 (S1G MCSs for 8 MHz, NSS = 4), indicating a S1G-MCS for a 8 MHz channel width.In frames transmitted by an S1G STA, the MCS Selector field value 6 indicates that the MCS Index field specifies values that are taken fromTable 24-54 (S1G MCSs for 16 MHz, NSS = 1) to Table 22-57 (S1G MCSs for 16 MHz, NSS = 4), indicating a S1G-MCS for a 16 MHz channel width.3) Modify the 11th paragraph of the subclause 8.4.1.32 of P802.11mc D3.0 (P671L30) as following;---In frames transmitted by an S1G STA, the MCS Selector field value 7 indicates that the MCS Index field specifies values that are taken fromTable 24-38 (S1G MCSs for 1 MHz, NSS = 1) to Table 22-41 (S1G MCSs for 1 MHz, NSS = 4), indicating a S1G-MCS for a 1 MHz channel width. Otherwise, the MCS Selector field values 7 is reserved.4) Insert a following text as the second last paragraph of the subclause 8.4.1.32 of P802.11mc D3.0 (P671L61);---In frames transmitted by an S1G STA, the MCS Index field format is as shown in Figure 8-99 (MCS Index field format when the MCS Selector field is 3, 4, 5, or 6). The NSS subfield indicates the number of spatial streams, and the VHT-MCS Index Row subfield indicates a value from the ""MCS Idx"" column of Table 24-33 (S1G MCSs for 1 MHz, NSS = 1) to Table 24-57 (S1G MCSs for 16 MHz, NSS = 4) in 24.5 (Parameters for S1G-MCSs) that corresponds to the channel width and NSS values." | Revised. Agree to the commenter in principle. The text change is shown in 11-14/1062r0 under all headings that include CID3709 that supersedes this CID.  |

 **[CID 3243]**

**Instruction to TGah editor: Please insert the following text and table after Figure 8-77a—Originator Parameter field in subclause 8.4.1.15a (Originator Parameter field) of TGah D2.1 as follows:**

The MCS subfield of the Originator Parameter field is defined in Table 8-54a (MCS Subfield of the Originator Parameter field).

Table 8-54a— MCS Subfield of the Originator Parameter field

|  |  |  |
| --- | --- | --- |
| **MCS subfiled value** | **S1G-MCS Index** | **Description** |
| 0-10 | 0-10 | The value represents the preferred S1G-MCS level |
| 11-14 |  | Reserved  |
| 15 |  | The value represents the asymmetric BlockAck is not supported |

**[CID 3245]**

**Instruction to TGah editor: Please modify the first paragraph in subclause 8.4.1.48.1 (VHT Compressed Beamforming Report field in S1G Band) of TGah D2.1 as follows:**

* VHT Compressed Beamforming Report field in S1G Band#3244)

For S1G band, the same VHT Compressed Beamforming Report field is applied in the sounding feedback frame, with the following exceptions:

* Table 8-73 (Order of angles in the Compressed Beamforming Feedback Matrix subfield) is replaced by Table 8-77a (Order of angles in the Compressed Beamforming Feedback Matrix subfield if the Feedback Type is SU) and Table 8-77b (Order of angles in the Compressed Beamforming Feedback Matrix subfield if the Feedback Type is MU) as shown below~~.~~, where the Feedback Type is indicated in the STA Info field of the NDP Announcement frame with format shown in Figure 8-50a—STA Info field when used in S1G band).

**[CID 3246, 3247]**

**Instruction to TGah editor: Please modify the 1st and 2nd paragraphs of D2.1 subclause 8.4.1.52 (Operating Mode field) as follows (changes in red):**

**8.4.1.52 Operating Mode field**

***Change the ~~1st and~~ 2nd paragraph of this subclause as follows:***

~~The Operating Mode field is present in the Operating Mode Notification frame (see 8.6.23.4 (Operating Mode Notification frame format) for a VHT STA or 8.6.24.13 (S1G Operating Mode Notification frame format for an S1G STA) and Operating Mode Notification element (see 8.4.2.165 (Operating Mode Notification element)).~~

The Operating Mode field for a non-S1G ~~VHT~~ STA is shown in Figure 8-114 (Operating Mode field).

**[CID 3248]**

**Instruction to TGah editor: Please modify the second row of Table 8-84a1—Subfields of the Sync Control field in subclause 8.4.1.57a Sync Control field of TGah D2.1 as follows:**

|  |
| --- |
| * Subfields of the Sync Control field
 |
| Subfield | Definition | Encoding |
| … | … | …  |
| Time Slot Protection Request | This subfield indicates request for a time slot protection during a time slot in a RAW (8.4.2.170a (RPS element)) or during a time duration defined in the Nominal Minimum Wake Duration field for a TWT time (8.4.2.170i (TWT element)) or for the duration of a TXOP after the expiration of wakeup timer. | Set to 0 if not requested.Set to 1 if requested. |