IEEE P802.11  
Wireless LANs

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| LB 200 comment resolution for 8.4.2.170b | | | | |
| Date: 2014-01-15 | | | | |
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Abstract

This submission proposes comment resolutions for the clause 8.4.2.170b from TGah Draft 1.0 for the following CIDs:

1113, 1114, 1115, 1116, 1118, 1119, 1120, 1121, 1123, 1124, 1125, 1126, 1127, 1128, 1386, 1387, 1625, 1702, 1968, 1969, 1970, 2235, 2236, 2237, 2238, 2239, 2241, 2584, 2585, 2730, 2731, 2732, 2808, 2888, 2889, 2890, 2891, 2892, 2893, 2955.

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** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 1113 | 85.62 | 8.4.2.170b | " The total length of the Information field is variable octets."  It is not necessary to say this. The figure suffices. | Remove cited text. | Accept  – Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 1113 |
| 1114 | 85.62 | 8.4.2.170b | "The frame format of the RPS element" -- eh?  No opportunity to confuse two different things left unexplored. Congratulations. | Remove the word "frame" here.  Ditto at 90.39 | Accept  – Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 1114 |
| 1115 | 86.14 | 8.4.2.170b | "The RAW Assignment field contains RAW Control, RAW Slot Definition, RAW Start Time (conditionally  present), RAW Group (conditionally present), Channel Indication (conditionally present) and Periodic  Operation Parameters (conditionally present) subfields"  There is no need to say this - the figure suffices | Remove cited text.  Remove similar lists of contents of figures in this subclause. | Revised  – Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 1115. |
| 1116 | 87.06 | 8.4.2.170b | Ho ho. Got to love these endian mistakes.  To avoid misinterpretation of multiple-bit enumerated values, show the decimal value, not the bit representation of it. The reason people get themselves into a right royal pickle is that in our bitfield, we show the least significant bit on the left, but in binary values it is on the right. | Change the raw type column to a single column with successive values: "0,2,1,3". You might also want to swap the values 2 and 1 around in keeping with the principle of least surprise. | Revised  – Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 1116 |
| 1118 | 87.20 | 8.4.2.170b | "The RAW is a Triggering Frame RAW." -- you don't need to say this. | Replace with "Triggering Frame RAW" | Accept  – Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 1118 |
| 1119 | 87.24 | 8.4.2.170b | " are prohibited from initiating" -- is this intended to be a normative statement? | Replace with "do not initiate". | Accept  – Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 1119 |
| 1120 | 87.27 | 8.4.2.170b | "may still" | reword to avoid "may" | Revised  – Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 1120 |
| 1121 | 87.47 | 8.4.2.170b | "1.7ms" -- IEEE-SA style  Note that values and their units are separated by a single space. | "1.7 ms"  Review all value/units pairs and ensure a space is present.  (hint: save the .pdf as text. Download "Antconc" and use a regular expression search something like [0-9][a-zA-Z] to identify candidate things to change.) | Accept  – Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 1121 |
| 1123 | 87.51 | 8.4.2.170b | " is of length 1 bit" -- this statement creates duplicate normative specification, because the figure is also normative.  References to fields should include the word "field", so in "The Start Time Indication is of length 1 bit and it indicates" the word "field" is missing. | Replace start of the description of the field by: "The Start Time Indication field indicates"  Make matching changes throughout subclause. | Revised  – Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 1123 |
| 1124 | 88.48 | 8.4.2.170b | This format doesn't match WG11 style. | "bits" -> "Bits"  Add a bit label row above the boxes. | Revised  – Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 1124 |
| 1125 | 89.07 | 8.4.2.170b | "The Slot Duration has time" -- concepts are not capitalized | lower case "Slot Duration" except in "Slot Duration Count field". | Accept  – Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 1125 |
| 1126 | 89.07 | 8.4.2.170b | "Slot Duration has time"  Concepts are not themselves capitalized | lower case "Slot Duration" except in "Slot Duration Count field". | Accept  – Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 1126 |
| 1127 | 89.30 | 8.4.2.170b | "The RAW Start Time subfield is 8 bits in length and it indicates the duration, in TU, .. . The time unit for RAW Start Time subfield is 2 TU."  These are contradictory statements. | You can say ".. duration, in units of 2 TU, from .." (and delete second sentence), or  say " .. duration from .." and leave the second sentence. | Revised –  Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 1127 |
| 1128 | 90.20 | 8.4.2.170b | "is 3 octets in length and" -- we already know this normatively. | Delete cited text.  Ditto for "and is of length 8 bits" at lines 25 and 31. | Revised –  Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 1128 |
| 1386 | 87.24 | 8.4.2.170b | There should not be any normative behaviour defined here. remove "may"s in the subclause, there is another ocurrence in L46. please check the whole subclause | as in the comment | Revised –  Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 1386 |
| 1387 | 87.41 | 8.4.2.170b | for both non-TIM RAW and AP PM RAW (RAW Type 10) we don't need the RAW Group | remove the RAW Group or privide an indication for the RAW Group presents or not... alternatively, the same group can be used in this type for "No Group present". | Revised –  Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 1387. |
| 1625 | 89.47 | 8.4.2.170b | The Page Index sub-subfield of 2 bits in each RAW Group subfield may be redundant with the utilization of TIM IE information that already includes the Page Index information | The Page Index sub-subfield can be replaced by including a field "Number of RAWs/TIM IE" in the RPS IE prior to multiple RAW Assignment fields. The number in this sub-subfield refers to the number of unique RAWs per TIM | Rejected –  TIM IE is optional and may not appear in a beacon. It is dangerous to depend on information from other optional IE.  No change is made. |
| 1702 | 89.01 | 8.4.2.170b | "binary bit" -- surely you jest. Or does 802.11 encompass quantum computing already? | Delete "binary". | Revised  – Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 1702 |
| 1968 | 85.59 | 8.4.2.170b | Typo in sentence "The RPS element contains the set of parameters necessary for restricted medium access only to one or  multiple groups of STAs within one or multiple RAWs"; | change to "The RPS element contains one or multiple sets of parameters necessary for restricting medium access only to one or multiple groups of STAs within one or multiple RAWs" | Revised  – Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 1968 |
| 1969 | 85.62 | 8.4.2.170b | Typo in "The total length of the Information field is variable octets." | Delete "octets" at the end of sentence. | Revised –  Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 1969 |
| 1970 | 89.62 | 8.4.2.170b | "The RAW Group field is set to all zeros to indicate that all STAs are allowed to access within the RAW.".  If all STAs are allowed to access within RAW, do we still need a RAW or not in such scenarios? | Please clarify. | Rejected:  RAW can still be used for scheduled channel access (e.g. using RA or slotted).  No change is made. |
| 2235 | 87.08 | 8.4.2.170b | The use of Bit 0 and Bit 1 is confusing in line 8 page 87, as there are two sets of "Bit 0 and Bit 1" in Table 8-191a. | Make the following changes:  1. in line 42 page 86, Figure 8-401cm, add Bit numbers to the subfields of the RAW Control field;  2. in Table 8-191a, change the bit descriptions consistently with the the Bit number added to Figure 8-401cm. | Revised –  Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 2235 |
| 2236 | 87.59 | 8.4.2.170b | why need more than one RAW Assignment fields for the Same group as a RAW group is defined by the Start AID and End AID? In other words, don't see the need for the Same Group indication in RAW control field. | Provide clarification text to justify the need of the Same Group indication or just delete it. | Rejected:  One example would be multiple RAWs with different start times and durations for the same group of STAs. Same group indication in this case can remove the redundant signaling of RAW group.  No change is made. |
| 2237 | 88.20 | 8.4.2.170b | In the paragraph in line 20 page 88, Which bit is the first bit and which bit is the 2nd bit of the RAW Type Options subfield? | Please clarify. | Revised –  Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 2237 |
| 2238 | 88.32 | 8.4.2.170b | How about value 10 and 11 of RAW Type Options subfield in the paragraph in line 32 page 88? | Append the following sentence at the end of the paragraph in line 32 page 88:  10 and 11 are reserved. | Revised –  Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 2238 |
| 2239 | 88.57 | 8.4.2.170b | The field name "Slot Duration/Number Configuration" seems not reflecting its use. Suggest changing it to a more meaningful name, .e.g., Size Indication of Slot Duration Count. | Change the field name ""Slot Duration/Number Configuration" " to " Size Indication of Slot Duration Count", in 11ah/D1.0 spec, including the following places:  1). Line 39 page 88  2). Line 51 page 88  3). Line 58 page 88  4). Line 13 page 89 | Revised –  Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 2239 |
| 2241 | 89.30 | 8.4.2.170b | what's the actual unit of the RAW Start Time field? 1 TU or 2 Tus? The paragraph in line 30 page 89 gives two different numbers. | Delete the last sentence of the paragraph in line 30 page 89, i.e.,  The time unit for RAW Start Time subfield is 2 TU. | Revised–  Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 2241 |
| 2584 | 86.26 | 8.4.2.170b | While the RAW Start Time subfield, the RAW Group subfield, the Channel Indication subfield, and the Periodic Operation Parameters are optional, the lengths in Figure 8-401cl shall include "0 or ". | Change the lengths (Octets) of the optional fields in Figure 8-401cl by adding "0 or ". | Revised–  Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 2584 |
| 2585 | 86.51 | 8.4.2.170b | While both the RAW Start Time subfield and the Periodic Operations Parameters subfield specifies the start time of the RAW, these subfields shall be exclusive. | Insert the following text as the 4th and 5th sentence of the 11th paragraph (The Start Time Indication is ...) of the 8.4.2.170b:  ---  If the Start Time Indication is set to 1, the Periodic RAW Indication shall be set to 0. If the Start Time Indication is set to 0 and the Periodic RAW Indication is set to 1, the Periodic Operation Parameters subfield specifies the start time of the RAW. Otherwise, | Reject –  The meaning of PRAW start offset and the RAW start time are different. How to set PRAW indication and start time indication is up to AP implementation.  No change is made. |
| 2730 | 87.28 | 8.4.2.170b | What does "a Poll frame" mean? | Need to specify clearly | Revised –  Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 2730 |
| 2731 | 87.36 | 8.4.2.170b | Specify the link to subclause 9.42.3 for doze awake cycle rescheduled STAs | as commented | Revised –  Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 2731 |
| 2732 | 89.13 | 8.4.2.170b | NRAW should be changed to N\_RAW | as commented | Revised-  Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 2732 |
| 2808 | 86.01 | 8.4.2.170b | With regard to Figure 8-401ck and Figure 8-401cl, it appears that the RAW Assignment field length is 10 octets not 'variable' | Only one of the Figures is correcy and I shall leave that to you, dear resolver, to decide. | Revised-  Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 2808. |
| 2888 | 86.28 | 8.4.2.170b | As RAW Start Time, RAW Group, Channel Indication, and Periodic Operation Parameters subfields present conditionally, the number of octets should be calculated accordingly. | Modify the Octets for those subfields as below:  RAW Start Time: from "1" to "0 or 1"  RAW Group: from "3" to "0 or 3"  Channel Indication: from "1" to "0 or 1"  Periodic Operation Parameters: from "3" to "0 or 3" | Revised-  Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 2888 |
| 2889 | 87.27 | 8.4.2.170b | Normative operational description including "may language" is better to be deleted or moved to an appropriate subclause. | As mentioned in the Comment. | Revised-  Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 2889 |
| 2890 | 87.46 | 8.4.2.170b | Normative operational description including "may language" is better to be deleted or moved to an appropriate subclause. | As mentioned in the Comment | Revised-  Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 2890 |
| 2891 | 88.22 | 8.4.2.170b | Even Paged STA indication bit is set to 0, the access of the RAW is still limited to those STAs who are indicated in the RAW Group subfield. This is not clear in the sentence. | As mentioned in the Comment | Revised  - Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 2891. |
| 2892 | 88.25 | 8.4.2.170b | There's a typo. | Change "RSP element" to "RPS element". | Revised  - Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 2892 |
| 2893 | 88.59 | 8.4.2.170b | There's a typo. | Change "filed" to "field". | Revised  - Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 2893 |
| 2955 | 86.33 | 8.4.2.170b | The 'Same Group Indication' is missing in the RAW Control subfield description. | Insert 'Same Group Indication,' after 'Start Time Indication,' | Revised-  Tgah editor to make changes shown in 11-14-0035r0 under the heading for CID 2955. |

***TGah editor: Modify the sub-clause 8.4.2.170b as the following:***

**8.4.2.170b RPS element**

***CID 1113, 1114, 1968, 1969:***

***TGah editor: Modify the paragraph starting from page 85 L59 as the following:***

The RPS element contains ~~the set of~~ parameters necessary for ~~restricted~~ restricting medium access only to one or multiple groups of STAs within one or multiple RAWs. The Information field contains the RAW Assignment fields for one or multiple groups of STAs. ~~The total length of the Information field is variable octets.~~ The ~~frame~~ format of the RPS element is defined in Figure 8-401ck (RPS element format).

***CID 1115:***

***TGah editor: Modify the paragraph starting from page 86 L13 as the following:***

The format of the RAW Assignment field ~~contains RAW Control, RAW Slot Definition, RAW Start Time (conditionally present), RAW Group (conditionally present), Channel Indication (conditionally present) and Periodic Operation Parameters (conditionally present) subfields as~~ is shown in Figure 8-401cl (RAW Assignment field format).The RAW Start Time, RAW Group, Channel Indication, and Periodic Operation Parameters subfields are conditionally present.

***CID 2584, 2808, 2888, 2955:***

***TGah editor: Modify Figure 8-401cl and Figure 8-401cm as the following:***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | RAW Control | RAW Slot Definition | RAW Start Time | RAW Group | Channel Indication | Periodic Operation Parameters |
| Octets: | 1 | 2 | 0 or 1 | 0 or 3 | 0 or 1 | 0 or 3 |

**Figure 8-401cl—RAW Assignment field format**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | B0 B1 | B2 | B3 | B4 | B5 | B6 B7 |
|  | RAW  Type | Start  Time  Indication | Same  Group  Indication | Channel  Indication  Presence | Periodic  RAW  Indication | RAW  Type  Options |
| Bits | 2 | 1 | 1 | 1 | 1 | 2 |

**Figure 8-401cm—RAW Control subfield format**

***TGah editor: Modify the paragraphs starting from Page 86 L 33 as follows:***

The format of RAW Control subfield is ~~8 bits in length and consists of RAW Types, Start Time Indication, Channel Indication Presence, Periodic RAW Indication and RAW Type Options as~~ shown in Figure 8-401cm (RAW Control subfield format).

The RAW Type ~~is 2 bits in length and it~~ indicates the type of the RAW defined by the RAW Assignment. ~~There are four RAW types: Regular RAW, Sounding RAW, AP PM/Non-TIM RAW and Triggering Frame RAW.~~ The

interpretation of the RAW Type subfields is illustrated in Table 8-191a (Interpretation of RAW Type and

RAW Type Options).

***CID 1116, 1118, 2235, 2237:***

***TGah editor: Modify replace Table 8-191a with the suggested one***

**Table 8-191a—Interpretation of RAW Type and RAW Type Options**

|  |  |  |  |
| --- | --- | --- | --- |
| ~~RAW Type~~ | | ~~Description~~ | ~~RAW Type Options Subfield~~ |
| ~~Bit 0~~ | ~~Bit 1~~ |
| ~~0~~ | ~~0~~ | ~~The RAW is a Regular RAW.~~ | ~~Bit 0: Paged STA~~  ~~Bit 1: RA Frame~~ |
| ~~0~~ | ~~1~~ | ~~The RAW  is a Sounding RAW.~~ | ~~00: SST Sounding RAW~~  ~~01: Sector Sounding RAW~~  ~~10, 11: Reserved~~ |
| ~~1~~ | ~~0~~ | ~~The RAW  is an AP PM/non-TIM RAW.~~ | ~~00: AP PM RAW~~  ~~01: Non-TIM RAW~~  ~~10, 11: Reserved~~ |
| ~~1~~ | ~~1~~ | ~~The RAW is a Triggering Frame RAW.~~ | ~~Reserved~~ |

|  |  |  |
| --- | --- | --- |
| **RAW Type** | **Description** | **RAW Type Options Subfield** |
| 0 | Regular RAW. | Bit 0: Paged STA  Bit 1: RA Frame |
| 1 | Sounding RAW. | 0: SST Sounding RAW  1: Sector Sounding RAW  2-3: Reserved |
| 2 | AP PM/non-TIM RAW. | 0: AP PM RAW  1: Non-TIM RAW  2-3: Reserved |
| 3 | Triggering Frame RAW. | Reserved |

***CID 1119, 1120, 1121, 1123, 1386, 1387, 2730, 2731, 2889, 2890:***

***TGah editor: Modify the paragraphs starting from Page 87 L 24 as the following:***

When the RAW ~~Type~~ type is Sounding RAW, non-AP STAs ~~are prohibited from initiating~~ do not initiate a TXOP during the RAW but ~~may~~ elect to listen to sector sounding (described in 9.47.5.2 (Procedure)) or SST sounding (described in 9.46 (Subchannel Selective Transmission (SST))). Non-AP STAs ~~may still~~ are allowed to transmit ~~control~~ response frames ~~and may transmit responses when they receive a Poll frame that is addressed to them~~ during the RAW.

When the RAW ~~Type~~ type is AP PM RAW/ non-TIM RAW, the RAW is either used for AP Power Management (as described in 10.2.1.19) or used for reserving channel time for non-TIM STAs, depending on the values of RAW Type Options subfield.

When the RAW is used as the non-TIM RAW as indicated by the RAW Type Options subfield, the access is restricted to non-TIM STAs such as TWT STAs or doze awake cycle rescheduled STAs (as described in 9.42.3). The RAW Assignment subfield for non-TIM RAW also conditionally contains the RAW Start Time, Channel Indication, and Periodic Operation Parameters subfields.

When the RAW is used as the AP PM RAW as indicated by the RAW Type Options subfield, the RAW Assignment subfield for AP PM RAW also conditionally contains the RAW Start Time, and Periodic Operation Parameters sub-subfields.

When the ~~Type~~ type is Triggering Frame RAW, each eligibleSTA ~~may~~ is allowed to send up to one frame during its assigned slot with frame duration less than 1.7 ms. The procedure of slot assignment is described in 9.20.5.3 (Slot assignment procedure in RAW).

The Start Time Indication subfield ~~is of length 1 bit and it~~ indicates whether RAW Start Time subfield is present in the RAW Assignment field or not. If it is set to 0, the RAW Start Time subfield is not present. If it is set to 1, the RAW Start Time subfield is present. In the first RAW Assignment, Start Time Indication set to 0 indicates that the RAW starts immediately after the (~~short~~Short) Beacon or (Short) Probe Response frame that includes the RPS element. For the other RAW Assignments, Start Time Indication subfield set to 0 indicates that the current RAW starts immediately after the end of the previous RAW.

**CID 1387:**

**Modify the paragraphs starting from Page 87 L58 as follows:**

When the RAW type is regular RAW, Souding RAW, or Triggering Frame RAW, ~~The~~ the Same Group Indication ~~is of length 1 bit and it~~ indicates whether the RAW ~~Group~~group defined in the current RAW Assignment is the same RAW ~~Group~~group as defined in the previous RAW Assignment. When the Same Group Indication bit is set to 1, the RAW ~~Group~~group defined in the current RAW Assignment is the same as the RAW ~~Group~~group defined in the previous RAW Assignment and the RAW Group subfield is not present in this RAW assignment. When the Same Group Indication bit is set to 0, the RAW Group subfield is present in this RAW assignment. The Same Group Indication in the first RAW Assignment is set to 1 to indicate the RAW ~~Group~~group in the first RAW Assignment is the same as the range of AIDs in all the TIM Bitmaps in the (short) Beacon frame.

When the RAW type is AP PM/non-TIM RAW, and the RAW is used as the non-TIM RAW as indicated by the RAW Type Options subfield, the Same Group Indication is set to 1 to indicate that the RAW group includes all non-TIM STAs and the RAW Group subfield is not present. When the Same Group Indication is set to 0, the RAW Group subfield is present.

When the RAW type is AP PM/non-TIM RAW, and the RAW is used as AP PM RAW as indicated by the RAW Type Options subfield, the Same Group Indication is set to 1 to indicate that the RAW group does not include any of the non-AP STAs, and the RAW Group subfield is not present. When the Same Group Indication is set to 0, the RAW Group subfield is present.

The Channel Indication Presence subfield ~~is of length 1 bit and it~~ indicates whether the Channel Indication Subfield in the current RAW Assignment is present or not. If it is set to 0, the Channel Indication subfield is not present. If it is set to 1, the Channel Indication subfield is present.

The Periodic RAW Indication subfield ~~is of length 1 bit and it~~ indicates whether the RAW is periodic. When the Periodic RAW Indication is set to 1, the RAW is periodic RAW (PRAW), and the Periodic Operation Parameters subfield is present. When the Periodic RAW Indication is set to 0, the Periodic Operation Parameters subfield is not present.

***CID 2238, 2891, 2892:***

***TGah editor: Modify the paragraphs starting from Page 88 L 16 as the following:***

The ~~RAW Type Options subfield is 2 bits in length and the~~ definitions of RAW Type Options subfield are specified in Table 8-191a (Interpretation of RAW Type and RAW Type Options).

When the RAW Type is Regular RAW, ~~the first bit in~~ Bit 0 of the RAW Type Options (Bit 6 of the RAW Control subfield) is Paged STA indication. When it is set to 0, the RAW can be accessed by any STA (paged or un-paged) within the RAW group specified by the RAW Group subfiled. When it is set to 1, the RAW can only be accessed by paged STAs within the RAW group specified by the RAW Group subfiled. ~~The second bit in~~ Bit 1 of the RAW Type Options (B7 of the RAW Control subfield) is RA Frame Indication. If it is set to 1, the AP will transmit a Resource Allocation frame, as defined in 8.3.4.3 (Resource Allocation frame format), at the beginning of the RAW defined by the RAW Assignment field of the ~~RSP~~ RPS element.

When RAW Type is Sounding RAW, the RAW Type Option is treated as one subfield, the interpretation of which is defined in Table 8-191a (Interpretation of RAW Type and RAW Type Options). ~~If it is set to 00, the~~

~~RAW is used for SST sounding only for SST capable STAs. If it is set to 01, the RAW is used for sector~~

~~sounding only for sectorization capable STAs. 10 and 11 are reserved.~~

When the RAW Type is AP PM/ non-TIM RAW, the RAW Type Options subfield is treated as one subfield, the interpretation of which is defined in Table 8-191a (Interpretation of RAW Type and RAW Type Options). ~~If it is set to 00, the RAW is used as AP PM RAW. If it is set to 01, the RAW is used as the Non-TIM RAW.~~

When the RAW Type is Triggering Frame RAW, the RAW Type Option subfield is reserved.

***CID 1124:***

***TGah editor: Modify the Figure 8-401cn as the following***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  | Slot ~~Duration/ Number Configuration~~ Definition Format Indication | Cross Slot Boundary | Slot Duration  Count | Number of Slots |
| ~~bits~~Bits: | 1 | 1 | y | 14-y |

**Figure 8-401cn—Format of RAW Slot Definition Subfields**

***CID 1125, 1126, 1127, 1128, 1702, 2239, 2241, 2732, 2893:***

***TGah editor: Modify the paragraphs starting from Page 88 L38 as the following:***

The format of RAW Slot Definition subfield ~~is of length 16 bits, and it consists of four subfields, the Slot Duration/Number Configuration subfield, Cross Slot Boundary subfield, Slot Duration Count subfield and the Number of Slots subfield as~~ is shown in Figure 8-401cn (Format of RAW Slot Definition Subfields).

The Slot ~~Duration/Number Configuration~~ Definition Format Indication ~~is of length 1 bit and it~~ indicates the number of bits used for Slot Duration Count subfields, i.e. the value y in Figure 8-401cn, of the Slot Duration Count ~~filed~~ subfield. If it is set 0, the Slot Duration Count subfield is 8 bits in length (y=8). If it is set to 1, the Slot Duration Count subfield is 11 bits in length (y=11).

The Cross Slot Boundary subfield ~~is a binary bit and~~ indicates whether STAs are allowed to transmit after the assigned RAW slot boundary. If the bit is set to 1, crossing a RAW slot boundary is allowed. If the bit is set to 0, crossing a RAW slot boundary is not allowed for transmissions from STAs.

The Slot Duration Count subfield is y-bit unsigned integer and it is used to calculate the duration of a slot, or the ~~Slot~~ slot ~~Duration~~duration. The ~~Slot~~ slot ~~Duration~~duration has time unit of microsecond and it is calculated as:

Slot Duration = 500 us + Slot Duration Count× 120 us.

The Number of Slots subfield is a (14-y)-bit unsigned integer and indicates the number of time slots (N\_RAW) in the RAW. ~~The value y is determined by the Slot Duration/Number Configuration subfield.~~

The Slot Definition subfield is used to calculate the RAW Duration. The RAW Duration indicated by the corresponding RAW Assignment can be calculated as follows:

RAW Duration = Slot Duration × Number of Slots

The RAW Duration indicates the duration, unsigned integer in microsecond, of restricted medium access assigned to a RAW.

When the RAW Type is Regular RAW or Triggering Frame RAW, the RAW Slot Definition subfield also provides the Number of Slots and Slot Duration information for RAW slot assignment. The procedure of slot assignment is described in 9.20.5.3 (Slot assignment procedure in RAW).

The RAW Start Time subfield ~~is 8 bits in length and it~~ indicates the duration, in units of 2 TU, from the end of (Short) Beacon or (Short) Probe Response frame transmission that includes the RPS element to the start time of the RAW. ~~The time unit for RAW Start Time subfield is 2 TU.~~

The RAW Group subfield indicates the STA AIDs that are allowed restricted access within the RAW period. The RAW Group subfield contains Page Index, RAW Start AID, and RAW End AID subfields according to the hierarchical addressing method of AIDs (see Figure 8-109b (Hierarchical structure of traffic-indication virtual bitmap)). The Page Index subfield indicates the Page index of the subset of AIDs ~~and is of length 2 bits~~.

The RAW Start AID field ~~is 11 bits in length and~~ indicates the 11 LSBs of the AID of the STA with the lowest AID allocated in the RAW.

The RAW End AID field ~~is 11 bits in length and~~ indicates the 11 LSBs of the AID of the STA with the highest AID allocated in the RAW.