IEEE P802.11  
Wireless LANs

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| LB 200 cluase 9.20.5.2 comment resolution | | | | |
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Abstract

This submission proposes comment resolutions of the clause 9.20.5.2 from TGah Draft 1.0.

* CIDs: 2906, 2907, 1212, 1488, 1731, 1976, 1977, 1978, 2252, 2468

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** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 2906 | 172 | 9.20.5.1 | It is not clear if a new frame exchange sequence is allowed after end of its allocated time slot if Cross Slot Boundary is allowed. It needs further clarification. | As mentioned in the Comment. | Rejected-  Please see the description of the Cross Slot Boundary subfield (8.4.2.170b).  It indicates whether STAs are allowed to transmit after the assigned RAW slot boundary.  A new frame exchange sequence is allowed after the end of its allocated time slot if the Cross Slot Boundary subfield is set to 1.  Further clarification is not needed. |
| 2907 | 172 | 9.20.5.1 | Meaning is not clear by mentioning "may immediately start contending". Better have clearer term. | Modify "may immediately start contending" to "is allowed to immediately start contending" | Accepted-  Agree with the comment. |
| 1212 | 172 | 9.20.5.2 | "If Cross Slot Boundary is allowed,"  This is not English. | Relate either to signalling by citing fields, or relate to behavior (and lower case it).  Ditto at line 47. | Revised-  Agree in principle.  Cross Slot Boundary should be changed to a related signaling name, Cross Slot Boundary subfield.  TGah editor to make changes shown in 11-14-0233r0 under the heading for CID 1212. |
|  |  |  |  |  | 0233r0 |
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| 1488 | 172 | 9.20.5.2 | the sentence is very vague, "start contending for the WM the channel access without waiting". Changing it to | as in the comment | Revised-  Agree in principle.  See the proposed change from CID 1977. |
| 1731 | 172 | 9.20.5.2 | Need a reference to the subclause in which the cross slot boundary rule is defined. Also this rule is not a frame, field, etc., so its name does not include initial caps. | Replace "Cross Slot Boundary" with "cross slot boundary" throughout the draft, and include a reference here to the subclause that defines the cross slot boundary rule. | Revised-  Agree in principle.  See the proposed change from CID 1212. |
| 1976 | 172 | 9.20.5.2 | The sentence "The AP indicates in the RPS element which Cross Slot Boundary rule is applied in each RAW." has grammar errors. | Propose to change to "In the RPS element, the AP indicates Cross Slot Boundary rule for each RAW". | Accepted-  Agree with the comment. |
| 1977 | 172 | 9.20.5.2 | Some redundant words shall be removed from the paragraph. | Propose changing to "If Cross Slot Boundary is not allowed, a STA shall not transmit or cause to be transmitted a frame exchange sequence that would exceed boundary of its allocated time slot. The STA that is changing from Doze to Awake state at the start of the allocated time slot may immediately start contending for the WM until a frame sequence is detected, or until a period of time equal to the ProbeDelay has transpired." | Revised-  Agree in principle.  In the following sentence,  "...may immediately start contending for the WM the channel access without waiting until a frame sequence is detected...",  a channel access is redundant word.  TGah editor to make changes shown in 11-14-0233r0 under the heading for CID 1977. |
| 1978 | 172 | 9.20.5.2 | The language of the paragraph shall be improved. | Proposed change: As shown in Figure 9-24a (Restricted Access Window (RAW)), if Cross Slot Boundary is not allowed, a STA shall complete the transmission of a frame and reception of any immediate response expected from the peer MAC entity prior to the end of the allocated slot boundary. Otherwise, it shall not initiate the transmission. | Accepted-  Agree with the comment. |
| 2252 | 173 | 9.20.5.2 | For a better illustration, the RAW Start Time should be also shown in Figure 9-24a. | illustrate the RAW Start Time in Figure 9-24a by moving the RAW to right and leave a gap between the Beacon and the RAW, then marking the gap as RAW Start Time. | Rejected-  The RAW Start Time is an optional field in the RPS element.  Because Figure 9-24a is showing the basic structure of the RAW, the current figure is enough good. |
| 2468 | 172 | 9.20.5.2 | This relaxation of the ProbeDelay rules needs to be in 10.2.2.2 | Move this to 10.2.2.2 | Rejected –  Please see the discussion shown in 11-14-0233r0 under the heading for CID 2468. |

**Discussion:**

**CID 2468**

The Cross Slot Boundary rule is specially designed for the restricted channel access mechanism.

The relaxation of the ProbeDelay rule is one of the Cross Slot Boundary rule. So, it is better to keep the current position.

**Propose:**

Revised for CID 2907, 1212, 1488, 1731, 1976, 1977, 1978, per discussion and editing instructions in 11-14/0233r0.

***TGah editor: Modify the sub-clause 9.20.5.2 as the following:***

* RAW structure and timing

An illustration of the RAW structure and timing diagram is shown in Figure 9-24a (Restricted Access Window (RAW)).

An AP indicates the RAW allocation and slot assignment within the RAW by including the RPS element and the TIM element in a (#853)(Short) Beacon frame.

In the RPS element, t~~T~~he AP indicates ~~in the RPS element which~~ Cross Slot Boundary rule ~~is applied in~~ for each RAW.

If the Cross Slot Boundary subfield in RAW Assignment field of the RPS element is set to 1 ~~Cross Slot Boundary is allowed~~, a frame exchange sequence is allowed to exceed boundary of its allocated time slot.(#595)

If the Cross Slot Boundary subfield in RAW Assignment field of the RPS element is set to 0 ~~Cross Slot Boundary is not allowed~~, a STA shall not transmit or cause to be transmitted a frame exchange sequence that would exceed boundary of its allocated time slot. The ~~and the~~ STA that is changing from Doze to Awake state at the start of the allocated time slot is allowed to ~~may~~ immediately start contending for the WM ~~the channel access~~ without (#48)waiting until a frame sequence is detected, or until a period of time equal to the ProbeDelay has transpired.

As shown in Figure 9-24a (Restricted Access Window (RAW)), if the Cross Slot Boundary subfield in RAW Assignment field of the RPS element is set to 0 ~~Cross Slot Boundary is not allowed~~, STA shall complete the transmission of a frame and reception of any ~~acknowledgement or other~~ immediate response expected from the peer MAC entity prior to the end of the allocated slot boundary. Otherwise, it shall not initiate transmission of a frame even though the remaining slot duration is nonzero.