IEEE P802.11
Wireless LANs

|  |
| --- |
| LB 200 Comment Resolution for Miscellaneus Part 3 |
| Date: 2014-03-01 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Alfred Asterjadhi | Qualcomm Inc. | 5775 Morehouse Dr, San Diego, CA 92109 | +1-858-658-5302 | aasterja@qti.qualcomm.com |
| Amin Jafarian | Qualcomm Inc. |  |  | jafarian@qti.qualcomm.com |

Abstract

This submission proposes resolutions for comments that impact multiple clauses of TGah Draft 1.0 with the following CIDs:

1342, 1343, 1048, 1075, 2740, 2718, 1415

Revisions

Rev 0 – Initial version of the document

Rev 1 – Removes changes to 8.3.5.1.2 as it is already solved in a previously motioned document. The definition of Partial BSSID is already present and clarified by simply adding the abbreviation in 8.3.5.1.1.

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** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 1342 | 52.05 | 8.3.5 | PBSSID has occurred nine times in this draft, but it is not defined anywhere. | Define PBSSID (maybe in P51L54). | Revised – Agree in principle with the commenter. Proposed resolution is to clarify that the PBSSID is Partial BSSID and specify this by replacing the first occurrences of “PBSSID” in NDP CTS frame with “Partial BSSID (PBSSID)”.TGah Editor to make the changes shown in 14/0326r1 under the heading for CID 1342. |
| 1343 | 52.27 | 8.3.5 | P52L27 and P53L24. This is not the right place to describe what this bit is used for or can be used for. | Remove this setence from here and move it to the right subclause. | Revised –Agree in principle with the commenter. Note that the following sentences are already present in subclause 9.47.4 which described the same: “*To facilitate the detection of the spatially orthogonal conditions by OBSS non-AP STAs or OBSS APs, the NDP CTS may be transmitted preceding the SO frame exchange. If the Early Sector Indicator in the NDP CTS frame is set to 1, it indicates that the NDP CTS frame is followed by the sectorized beam frame exchange*.”TGah editor to remove the sentence “*The Early Sector Indicator field facilitates the detection of Spatially Orthogonal conditions by the stations receiving the short CTS frame.*” from P52L27 and P53L24. |

**Discussion:** *None.*

3.3 Abbreviations and acronyms

**Instructions to TGah Editor**: Replace the first occurrence of “Partial BSSID” with “Partial BSSID (PBSSID)” in P52L5 and in P63L05.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 1048 | 38.07 | 8.2.5.7 | WG11 style does not permit (outside 8.1) normative verbs, because Clause 8 describes structure, not behaviour. The cited location has a "may". | There are 17 "may" statements in Clause 8. Please either reword as declarative, or find a home in Clause 9 for them. | Revised – Agree with the commenter. In addition to may statements from a quick search also shall statements were identified under this subclause in D1.2 of 802.11ah. Proposed resolution is to reword as declarative statements. TGah Editor to make changes shown in 14/0326r1 under the heading for CIDs from 1048. |

**Discussion:** *None.*

**Note to TGah Editor*: All instructions are related to 802.11ah D1.2.***

**8.3.1.19 VHT NDP Announcement frame format**

**Instructions to TGah Editor*: Modify the sentence in P47L14 as follows:***

—In Table 8-18a(STA Info subfields), Nc index field does not indicate a value that is more than 4.

**8.4.1.47.1 VHT MIMO Control Field used in S1G Band(#359)**

**Instructions to TGah Editor*: Modify the sentences below in P77L6-16 as follows:***

For the S1G band, the VHT MIMO control field is used(#14/0142r1) in the sounding feedback frame, with the following exceptions.

* Nc index field does not indicate a value that is more than 4
* Nr index field does not indicate a value that is more than 4

***…***

* Codebook information field is reinterpreted as follows:

**8.4.2.6.1.4 ADE mode**

**Instructions to TGah Editor*: Modify the sentence below in P87L26 as follows:***

If all but one AIDs in the ADE blocks are paged, AP sets the Inverse Bitmap subfield to 1 and ADE Block consists only one ΔAID subfield. The AP sets the EWL to 7 and the Length subfield to one. ΔAID subfield is set to (AID – (Page Index × 2048 + Block Offset × 64)).

**8.4.2.30 TCLAS element**

**Instructions to TGah Editor*: Modify the sentence below in P91L11 as follows:***

If an optional MAC Header field needs to be compared, the LSB of the two bits in the Classifier Mask corresponding to the optional MAC header field is set to 1, and an MPDU that does not include the optional field is not a matching MPDU.

**8.4.2.170c Page Slice element**

**Instructions to TGah Editor*: Modify the sentence below in P104L51 as follows:***

For example, with a Page Bitmap field of 2 octets, a value in the Page Slice Length set to 3, and a value in the Page Slice Count set to 5, the page sliceconsists of 4 (16 – 3\*4) blocks for the last TIM, i.e., a value greater than the value indicated in the Page Slice Length field.

**8.7.3.1 Frame Control field**

**Instructions to TGah Editor*: Modify the sentence below in P162L39 as follows:***

Ack Policy 0 is limited to at most one MU recipient per MU PPDU.

**8.4.2.30 TCLAS element**

**Instructions to TGah Editor*: Modify the sentence below in P90L54 as follows:***

An incoming MSDU that failed to be classified to a particular TS can be classified to another active TS based on the frame classifier for that TS.

**8.4.2.170f S1G Sector Operation element**

**Instructions to TGah Editor*: Modify the sentence below in P109L25 as follows:***

S1G Sector Operation elementcan be provided in Association Response frame when dot11S1GSectorizationActivated is true and it indicates the GrpID allocated to that station to be used during the sectorization purpose, the type of sectorization method, the value of the Period field, and the Sector Duration if all the sector durations are equal. If the Sector Duration (the sector time duration) is not equal for all sectors the Sector Duration value provided at the association time has zero value. The values of Sector ID and Omni are omitted by the station in the Association Response frame. By default all the stations consider themselves in GrpID zero unless is specified otherwise via the Association Response frame. This way all the stations can transmit at any time before their association. It is expected that during the association, stations receive a non-zero GrpID, which will restrict their activity to a particular sector interval or during Omni time interval. The APcan allow some stations to have the group zero even after association, for instance public safety stations or some high priority sensors.

**Instructions to TGah Editor*: Modify the sentence below in P110L20 as follows:***

The Periodic Training Indicator is set to 1 to indicate periodic sector training is conducted by the AP and stationscan perform Sector training.

**8.4.2.170k.2 S1G Capabilities info field**

**Instructions to TGah Editor*: Modify the sentence below in P120L17 (second column) as follows:***

Indicates support for acting as a reverse direction responder, i.e., the STA can use an offered RDG to transmit data to an RD initiator using the reverse direction protocol described in 9.26 (Reverse direction protocol).

**8.4.2.170m Authentication Control element(#482)**

**Instructions to TGah Editor*: Modify the sentence below in P127L62 as follows:***

The Authentication Control element indicates to the recipient STA whether it can transmit an Authentication Request frame to the AP which sends the element.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 1075 | 51.40 | 8.3.5.1.1 | The structure used to show these frame formats diverges gratuitously from .11 style. | Display each format as a "bit-oriented" figure (see WG11 style for details), and document each field in body text underneath. Do this for all the NDP frame formats. | Revised – Agree with the commenter. Note that proposed resolution in 14/0210r1 already resolves some of the issues pointed out by the commenter (e.g., adds figures for each of the frames). Hence, proposed resolution is to take care of the remaining issues as instructed below.TGah Editor to make changes shown in 14/0210r1, and to create two subclauses for each NDP MAC frame defined in 8.3.5, (e.g., 8.3.5.1.1.1 NDP\_1M CTS and 8.3.5.1.1.2 NDP\_2M CTS). TGah editor to list each figure associateg to one frame format and the content of each table, associated to one frame format under the created subclause associated to the frame format, in body text underneath each of the figures as suggested by the commenter and successively remove each table and corresponding crossreferences. |

**Discussion:** *None.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 2740 | 143.29 | 8.7.4.1 | Is AID field same as Duration/ID field for AID indication? It is not clear how or whether the unused bits (e.g. 3 MSBs) of AID(RA) field are reserved.. | Please clarify | Revised – The commenter is correct that the three fields (B13-B15) of these frames are unused. Proposed resolution is to indicate them as reserved.TGah Editor to make changes shown in 14/0326r1 under the heading for CIDs from 2740. |

**Discussion:** *None.*

**8.7.4.1 STACK frame format(#561)**

**Instructions to TGah Editor: *Change the 2nd paragraph of this subclause as follows:***

The A1 is an SID field that contains the AID of the intended recipient of the frame in the AID subfield. A3 Present, A4 Present and A-MSDU subfields (B13, B14, and B15) of the SID field are reserved.

**8.7.4.2 BAT frame format(#560)**

**Instructions to TGah Editor: *Change the 2nd paragraph of this subclause as follows:***

The A1 field is an SID field that contains the AID of the intended recipient of the frame in the AID subfield. A3 Present, A4 Present and A-MSDU subfields (B13, B14, and B15) of the SID field are reserved.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 2718 | 38.16 | 8.2.5.8 | If a normal data frame with Duraiton/ID field can be the response frame to short frames, how to set the Duration(/ID) field should be specified in subclause 8.2.5.8 Setting for other response frames. | Change to "For any frame other than Speed Frame exchange that includes a Duration/ID (or Duration field), transmitted by an S1G STA as a response to Short frames, the Duration/ID (or Duration field) of the frame is set to 0. For any frame in Speed Frame exchange that includes a Duration/ID (or Duration field), transmitted by an S1G STA as a response to Short frames, the Duration/ID (or Duration field) of the frame is set to the Duration/ID field or Duration of the frame that elicited the response minus the time, in microseconds between the end of the PPDU carrying the frame that elicited the response and the end of the response frame.". | Revised – Agree in principle with the commenter. Proposed resolution is to add text which is inline with subclause 9.44 (Speed Frame exchange).TGah Editor to make changes shown in 14/0326r1 under the heading for CID 2718. |
| 1415 | 38.17 | 8.2.5.8 | A frame sent as a response to a Short frame may have the Duration/ID field set to 0 for single protection, what about multiple protection? | As in comment | Revised –Same as CID 2718 |

**Discussion:** *None.*

**8.2.5.8 Setting for other response frames**

**Instructions to TGah Editor: *Change this paragraph of this subclause as follows:***

For any frame that includes a Duration/ID field, transmitted by an S1G STA as a response to Short frames which are not part of a SF exchange, the Duration/ID field(#2378) of the frame is set to 0. For any frame transmitted by an SF Initiator as a response to Short frames, the Duration/ID field of the frame is set to the value of the TXNAV timer minus the estimated time required to transmit the frame.

**9.3.2.13 Response Indication procedure**

**Instructions to TGah Editor: *Insert this paragraph at the end of this subclause as follows:***

An S1G STA that intends to transmit more than one SIFS-separated Short frames for which it does not follow the SF exchange rules defined in 9.44 (Speed Frame Exchange) should protect the sequence with a protective mechanism.