IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Some miscellaneous CIDs of D7.0 – Part 2 | | | | |
| Date: 2016-04-17 | | | | |
| 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 |
| Menzo Wentink | Qualcomm Inc. | Straatweg 66, Breukelen, The Netherlands |  | mwentink@qti.qualcomm.com |

Abstract

This submission proposes resolutions for multiple comments related to TGah D7.0 with the following CIDs:

* 10018, 10019, 10020, 10021, 10023, 10024

Revisions:

* Rev 0: Initial version of the document.

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** | **Commenter** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 10018 | Hamilton, Mark | 341.12 | CID 8296 requested a change to language that included "Reachable Address Update frame". That CID was accepted in principle, but the language was chaged to "Reachable Address Update element". There is no such element. There are only a "Reachable Address Update frame" and a "Reachable Address element". In this context (a change of reachable address list after (Re)Association), the frame is the appropriate construct to reference, and no more complicated phrasing about a frame that contains the element is needed. | Change "An S1G relay STA shall send a frame that contains a Reachable Address Update element ..." to "An S1G relay STA shall send a Reachable Address Update frame ..." | Revised –  Agree in principle with the comment. Proposed resolution accounts for the suggested changes.  TGah editor to make the changes shown in 11-16/0540r0 under all headings that include CID 10018. |
| 10019 | Hamilton, Mark | 175.20 | CID 8297 suggested deleting the Relay Capable subfield from the Reachable Address field format, and associated text. This was rejected, with the comment, "Whether a address is relay capable provides useful information when forming the address tree." However, without any other information (such as which of the Reachable Addresses is associated/reachable from which of the Relay Capable STA's sub-trees), it really isn't possible to construct the address tree. It's not clear what value such a tree would provide, either, for that matter. | Delete the Relay Capable subfield from the Reachable Address field format, and associated text (P175L8, P175L20 and P341L31). | Rejected –    Within a relay tree there can be one or more STAs that are external nodes of the tree which may not be relay capable, while internal nodes are relay capable. The Relay Capable subfield helps identify which STA from those in the reachable address list is relay capable or not. |
| 10020 | Hamilton, Mark | 341.06 | In 10.52.2, "An S1G relay STA shall send a Reachable Address Update element that contains the current list of reachable addresses, in the (Re)Association Request frame": the element is called "Reachable Address element" (no "Update"). | Change, "Reachable Address Update element" to "Reachable Address element" | Accepted |
| 10021 | Hamilton, Mark | 91.01 | Current text says, "when the Subtype subfield is not equal to 3 or not equal to 10". This means either option satisfies the condition. It should be when \_both\_ options are true (the subfield is not equal to 3 and the subfield is also not equal to 6, leaving the other 14 possibilities only). | Change "or" to "and". Alternatively, change to "when the Subtype subfield is not equal to 3 or 6", which is a little ambiguous but likely understood by native speakers. Similarly in 9.2.4.1.1 at P76L1 and P76L41. | Revised –  Agree with the commenter. Proposed resolution accounts for the suggested changes to P91.01, and P76L1, however the cited text in P76L41 is present in the baseline so please submit the comment to REVmc.  TGah editor to make the changes shown in 11-16/0540r0 under all headings that include CID 10021. |
| 10023 | Hamilton, Mark | 444.49 | "If Coding field is 0, this field is reserved and set to 1." Why is a reserved field set to 1, differently from all other reserved fields and set conventions? | Change to "... set to 0." Similarly for the other uses of "LDPC Extra" field. | Revised –  There are multiple occurrences of this setting of a field of a SIG field to 1 in the baseline. Please refer to P2538L58 (“The bit is reserved and set to 1 in VHT PPDUs transmitted by a non-AP VHT STA.”), P2539L19 (“If the MU[0] NSTS field is 0, then this field is reserved and set to 1.”, etc.  In order to keep consistency of the terminologies used in the draft (there are portions of the text in TGah D7.0 which state: “If Coding field is 0, this field is set to 1” see P452L42 and P467L22 the proposed resolution is to use the same statement avoiding the “reserved” terminology.  TGah editor: Replace “If Coding field is 0, this field is reserved and set to 1” with “If Coding field is 0, this field is set to 1.” |
| 10024 | Hamilton, Mark | 511.10 | "code type" is not well-defined. It appears to be the "Coding" subfield of the SIG\* fields. | Add a sentence, or even a paranthetical phrase, to clarify that "code type" is referencing this subfield of the preamable. | Revised –  Agree in principle with the commenter. Proposed resolution accounts for the suggested change.  TGah editor to make the changes shown in 11-16/0540r0 under all headings that include CID 10024 |

**Discussions: *None.***

10.52.2 S1G Relay operation

**TGah Editor: *Change the paragraphs below of this subclause as follows (#10020):***

An S1G relay STA shall send a Reachable Address element that contains the current list of reachable addresses, in the (Re) Association Request frame to the AP to which it is associating. In this frame the relay STA shall set the Initiator MAC address field of the element to its own MAC address, and the Add/Remove subfield to 1.

**TGah Editor: *Change the paragraphs below of this subclause as follows (#10018):***

An S1G relay STA shall send a Reachable Address Update frame that contains the current list of reachable addresses to the AP to which it is associated when one of the following conditions occurs:

1) A new non-AP STA associates with the S1G relay AP of the relay

2) A non-AP STA is disassociated or deauthenticated from the S1G relay AP of the S1G relay

3) A Reachable Address Update frame is received at the S1G relay AP of the S1G relay

An S1G relay STA generating a Reachable Address frame (under conditions 1 and 2 of above) shall set the Initiator MAC address field of the element to its own MAC address.

…

**9.3.1.1 Format of Control frames**

**TGah Editor: *Change the paragraphs below of this subclause as follows (#10021):***

In an S1G Control frame, when the Subtype subfield is not equal to 3 and not equal to 10, the format of the Frame Control field is illustrated in Figure 9-18a (Frame Control field in S1G Control frames when Subtype is not equal to 3 or Subtype is not equal to 10).

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0     B1 | B2   B3 | B4      B7 | B8 B10 | B11 | B12 | B13 | B14 | B15 |
|  | Protocol  Version | Type | Subtype | Bandwidth  Indication | Dynamic Indication | Power  Management | More Data | Protected Frame | +HTC/ Order |
| Bits: | 2 | 2 | 4 | 3 | 1 | 1 | 1 | 1 | 1 |
| * Frame Control field in S1G Control frames when Subtype is not equal to 3 andnot equal to 10 | | | | | | | | | |

**9.2.4.1.1 General**

For a frame carried in an non-S1G PPDU, w~~W~~hen the value of the Type subfield is not equal to 1 or the value of the Subtype subfield is not equal to 6, the remaining subfields within the Frame Control field(#9070) are: To DS, From DS, More Fragments, Retry, Power Management, More Data, Protected Frame, and +HTC/Order. In this case, the format of the Frame Control field is illustrated in Figure 9-2 (Frame Control field in non-S1G PPDUs when Type is not equal to 1 or Subtype is not equal to 6).

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0   B1 | B2  B3 | B4  B7 | B8 | B9 | B10 | B11 | B12 | B13 | B14 | B15 |
|  | Protocol  Version | Type | Subtype | To DS | From DS | More Fragments | Retry | Power  Management | More Data | Protected Frame | +HTC/ Order |
| Bits: | 2 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| * Frame Control field in non-S1G PPDUs when Type is not equal to 1 or Subtype is not equal to 6 | | | | | | | | | | | |

For a frame carried in an S1G PPDU, when the value of the Type subfield is equal to 0 or 2, the remaining subfields within the Frame Control field are: To DS, From DS, More Fragments, Retry, Power Management, More Data, Protected Frame, and +HTC/Order. In this case, the format of the Frame Control field is illustrated in Figure 9-3a (Frame Control field in S1G PPDUs when Type is equal to 0 or 2).

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0     B1 | B2   B3 | B4      B7 | B8 | B9 | B10 | B11 | B12 | B13 | B14 | B15 |
|  | Protocol  Version | Type | Subtype | To DS | From DS | More Fragments | Retry | Power  Management | More Data | Protected Frame | +HTC/ Order |
| Bits: | 2 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| * Frame Control field in S1G PPDUs when Type is equal to 0 or 2(#9032) | | | | | | | | | | | |

**23.3.19 PHY receive procedure**

**TGah Editor: *Change the paragraphs below of this subclause as follows (#10024):***

The Data field follows the training and signal fields. When the Coding subfield in SIG or SIG-A field indicates BCC, the number of symbols in the Data field is determined by Equation 23-61.

…

When the Coding subfield in SIG or SIG-A field indicates LDPC and Aggregation subfield in SIG or SIG-A field is 1, the number of symbols in the Data field is determined by Equation 23-62.

…

When the Coding subfield in SIG or SIG-A field indicates LDPC and Aggregation subfield in SIG or SIG-A field is 0, the parameter *NSYM, init*is determined by Equation 23-63