IEEE P802.11
Wireless LANs

|  |
| --- |
| Resolution for CIDs in 9.4.2.37 |
| Date: January 10, 2018 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Abhishek Patil | Qualcomm Inc. |  |  | appatil@qti.qualcomm.com |
| Alfred Asterjadhi | Qualcomm Inc. |  |  | aasterja@qti.qualcomm.com |
| George Cherian | Qualcomm Inc. |  |  | gcherian@qti.qualcomm.com |

Abstract

This submission proposes resolutions for following CIDs received for TGax LB230 (3): 11365, 11986, 11366

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Minor revision based on feedback received when the doc was presented in the MAC ad-hoc (1/10/18)
	+ For CID 11365, changed to “(or HT Operation element)” – same change for VHT & HE Operation element

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 TGax Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGax Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGax Editor: Editing instructions preceded by “TGax Editor” are instructions to the TGax editor to modify existing material in the TGax draft. As a result of adopting the changes, the TGax editor will execute the instructions rather than copy them to the TGax Draft.***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Pg / Ln** | **Section** | **Comment** | **Proposed Change** | **Resolution** |
| 11365 | Bibhu Mohanty | 120.63 | 9.4.2.37 | Optional Subelements may include HE Operation element (Subelement ID 194). Description text related to HE subfield should mention HE Operation element (along with HE Capabilities). Same comment applies to baseline case where HT/VHT Operation element may be present in the Optional Subelement field. | Revise the sentence as follows:"The High Efficiency subfield is set to 1 to indicate that the AP represented by this BSSID is an HE AP and that the HE Capabilities element or HE Operation element, if included as a subelement in the report, is identical in content to the HE Capabilities element or HE Operation element respectively included in the AP's Beacon frame. Otherwise the High Efficiency subfield is set to 0." | RevisedAgree with the comment.The text in the paragraphs cited in the comment is updated to capture HT/VHT/HE Operation element.**TGax editor, please make changes as showing in document 11-17/1850r1 under CID 11365** |
| 11986 | James Yee | 121.01 | 9.4.2.37 | The ER BSS subfield is identically set as the High Efficiency subfield. There should be additional conditions associated to justify its presence. | Please clarify. | RevisedThe description of ER BSS subfield is updated to clarify that the bit represents an HE AP operating as an ER BSS.**TGax editor, please make changes as showing in document 11-17/1850r1 under CID 11986** |
| 11366 | Bibhu Mohanty | 121.21 | 9.4.2.37 | Reference to HE Cap and HE Op needs to be added in the Subelement section (see 802.11-2016 spec for examples of HT/VHT Cap and Op (pg 920 & pg 923)) | As in comment | RevisedAgree with the comment.Added sentences to cover the description for HE Capabilities and HE Operations element when they are included as sub-elements in the Neighbor Report element.**TGax editor, please make changes as showing in document 11-17/1850r1 under CID 11366** |

*
* Neighbor Report element

**CID 11365**

TGax Editor: Please make the following changes to the 11th and 12th paragraph (below Fig 9-297) of this section (802.11-2016 P918):

The High Throughput bit is set to 1 to indicate that the AP represented by this BSSID is an HT AP ~~including~~ and that the HT Capabilities element (or HT Operation element), if included as a subelement in the report ~~in its Beacons, and that the contents of that HT Capabilities element are~~ is identical in content to the HT Capabilities element (or HT Operation element) included in the neighboring AP’s Beacon~~advertised by the AP sending the report~~. Otherwise the High Throughput subfield is set to 0.

The Very High Throughput bit is set to 1 to indicate that the AP represented by this BSSID is a VHT AP and that the VHT Capabilities element (or VHT Operation element), if included as a subelement in the report, is identical in content to the VHT Capabilities element (or VHT Operation element) included in the neighboring AP’s Beacon. Otherwise the Very High Throughput subfield is set to 0.

TGax Editor: Please make the following changes to the 1st paragraph in this section (11ax D2.0 P120L62):

The High Efficiency subfield is set to 1 to indicate that the AP represented by this BSSID is an HE AP and that the HE Capabilities element (or HE Operation element), if included as a subelement in the report, is identical in content to the HE Capabilities element (or HE Operation element) included in the neighboring AP's Beacon frame. Otherwise the High Efficiency subfield is set to 0.

**CID 11986**

TGax Editor: Please make the following changes to figure 9-926 (11ax D2.0 P120L50):

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0 B1 | B2 | B3 | B4 B9 | B10 | B11 | B12 | B13 | B14 | B15 | B1~~4~~6 B31 |
|  | AP Reachability | Security | Key Scope | Capabilities | Mobility Domain | High Throughput | Very High Throughput | FTM | High Efficiency | HE ER BSS | Reserved |
| Bits: | 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | ~~18~~16 |
| * BSSID Information field
 |

TGax Editor: Please make the following changes to the 2nd paragraph in this section (11ax D2.0 P120L62):

When the High Efficiency subfield is 1, the HE ER BSS subfield is set to 1 if the BSS corresponding to the HE AP representing this BSSID is an extended range BSS beaconing in ER format (see 27.16.5 (ER Beacon Generation in an ER BSS)). Otherwise the HE ER BSS subfield is set to 0.

**CID 11366**

TGax Editor: Please add the following two sentences after “The VHT Operation subelement” which is towards the end of this section (802.11-2016 P923):

The HE Capabilities subelement is the same as the HE Capabilities element as defined in 9.4.2.237 (HE Capabilities element).

The HE Operation subelement is the same as the HE Operation element as defined in 9.4.2.238 (HE Operation element).