IEEE P802.11
Wireless LANs

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| LB275 Resolution for CIDs on bandwidth indication |
| Date: September 6, 2023 |
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 Abstract

This submission proposes resolutions for following 2 CIDs received for TGbe LB275:

19350, 19627

**Revisions:**

* Rev 0: Initial version of the document.

***TGbe editor: The baseline for this document is 11be D4.0***

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

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

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

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| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Clause** | **Pg/Ln** | **Comment** | **Proposed Change** | **Resolution** |
| 19350 | Brian Hart | 9.4.2.161 | 229.50 | The text says "The format of the Bandwidth Indication subelement is the same as the Bandwidth Indication element (see 9.4.2.319 (Bandwidth Indication element)). "but the BI element has "element ID Extension" yet the subelements as defined in 9.4.3 (REVme) do not, so the cited sentence is not possible. Subelements are their own number space so we have a tension between consistency (i.e., same format as the element) and compactness (choose a different subelement ID to avoid need for 1 octet of element ID Extension (and then treat this as a special case) | Option a) rewrite 9.4.3 to include 0/1 octets of "element ID Extension". Option b) in figure , change "Bandwidth Indication subelement" to "Bandwidth Indication element" . Change text to "The format of the Bandwidth Indication element is defined in 9.4.2.319 (Bandwidth Indication element). This element is present for an EHT STA when channel switching or extended channel switching to an EHT BSS operating channel width wider than 160 MHz or to an EHT BSS operating channel width that includes at least one punctured 20 MHz subchannel. Otherwise, the Bandwidth Indication element is not present." | **Revised**Agree with the commenter in general. The text and figure is updated to fix the issue.TGbe Editor: please make the changes indicated in this doc 11-23/1603r0 tagged with #19350.  |
| 19627 | Yanjun Sun | 9.4.2.161 | 229.50 | To avoid ambiguity, need to clarify how to config the value of the 'Element ID Extension' field when the Bandwidth Indication is included as a subelement | As in comment | **Revised**Agree with the commenter in general. The text and figure is updated to fix the issue.TGbe Editor: please make the changes indicated in this doc 11-23/1603r0 tagged with #19350.  |

**Discussion:**

Two options are discussed:

**Option-1:** it uses the BW Indication element within the Channel Switch Wrapper element; there is a similar case where the “element” is used within an element, please check: “9.4.2.174 Future Channel Guidance element”

**Option-2:** “para-subelement” is used instead of BW Indication subelement with similar the fields.

**9.4.2.161 Channel Switch Wrapper element**

Option-1:

***Please change the Figure 9-965 as follows:***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Element ID | Length | New Country subelement (optional) | Wide Bandwidth Channel Switch subelement (optional) | New Transmit Power Envelope subelement (optional) | Bandwidth Indication element (optional) |

Octets: 1 1 variable variable variable variable

**Figure 9-695—Channel Switch Wrapper element format[#19350]**

***Please change the eighth paragraph as follows:***

The Bandwidth Indication element is defined in 9.4.2.319 (Bandwidth Indication element). This element is present for an EHT STA when channel switching or extended channel switching to an EHT BSS operating channel width wider than 160 MHz or to an EHT BSS operating channel width that includes at least one punctured 20 MHz subchannel. Otherwise, the Bandwidth Indication element is not present.

Option-2:

***Please change the Figure 9-965 as follows:***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Element ID | Length | New Country subelement (optional) | Wide Bandwidth Channel Switch subelement (optional) | New Transmit Power Envelope subelement (optional) | Bandwidth Indication for Channel Switch Parasubelement (optional) |

Octets: 1 1 variable variable variable variable

**Figure 9-695—Channel Switch Wrapper element format[#19350]**

***Please change the eighth paragraph as follows:***

[#19350] The format of the Bandwidth Indication for Channel Switch para-subelement is shown in Figure 9.xxx. The Para-subelement ID, Length, and Para-subelement ID Extension, Bandwidth Indication Parameters, and Bandwidth Indication Information fields are defined to be the same as the Element ID, Length, Element ID Extension, Bandwidth Indication Parameters and Bandwidth Indication Information fields of the Bandwidth Indication element, respectively (see 9.4.2.319 (Bandwidth Indication element)). This para-subelement is present for an EHT STA when channel switching or extended channel switching to an EHT BSS operating channel width wider than 160 MHz or to an EHT BSS operating channel width that includes at least one punctured 20 MHz subchannel. Otherwise, the Bandwidth Indication for Channel Switch para-subelement is not present.

***Please add the Figure 9-xxx as follows:***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Para-subelement ID | Length | Para-subelement ID Extension | Bandwidth Indication Parameters | Bandwidth Indication Information |

Octets: 1 1 1 1 3-5

**Figure 9-xxx— Bandwidth Indication for Channel Switch para-subelement format**