IEEE P802.11
Wireless LANs

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| Alternative comment resolution for extended element ID |
| Date: 2018-07-31 |
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Abstract

Proposed alternative resolutions to LB232 comments on elements: 1100, 1103, 1107

With credit to Robert Stacey, for the original version of this document (11-18/0702), from which, changes are shown in this proposal.

## Comment

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| **CID** | **Commenter** | **Page** | **Clause** | **Comment** | **Proposed Change** |
| 1100 | Robert Stacey | 904.07 | 9.4.2.1 | The Element ID Extension field is not optional; it is present if the Element ID is a certain value. Having both a text description of the element format and a figure is redundent and unnecessary. | Repalce the first sentence with "Elements have a common format defined in Figure 9-136". Delete "See Figure 9-136 (Element format). The presence of the Element ID Extension field is determined by the Element ID field." Add a statement "The Element ID Extension field is present if the Element ID field is 255." Replace "Reserved for elements using the Element ID Extension field" in Table 9-87 with "Reserved" (2x). |

## Proposed resolution for 1100

REVISED – Reorganize 9.4.2.1 following the instructions in <this doc> associated with this comment. These changes:

* Correct the error where the Element ID Extension field is described as optional
* Remove redundancy and clarify the format description

## Editing instructions

9.4.2.1 General

*Change the first paragraph as follows:*

Elements have a common format shown in Figure 9-136.

***Replace the text following Figure 9-136 with:***

An element is identified by the Element ID field and, if present, the Element ID Extension field. An "extended element ID" comprises an Element ID and an Element ID Extension, and is applicable for those elements that have a defined Element ID Extension.

The set of valid elements is defined in Table 9-87 (Element IDs).

If an Element ID value has an entry in Table 9-87 of "Reserved for extended element IDs" and "X" as the Element ID Extension, then the Element ID value is used only for extended Element IDs and the Element ID Extension field is always present in that specific element identification, otherwise the Element ID Extension is not present.

The Length field indicates the number of octets in the element excluding the Element ID and Length fields.

The Information field carries information specific to the element.

***In Table 9-87, modify the entry for 255/0, from:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Reserved for elements using the Element ID Extension field | 255 | 0(11ai) |  |  |

***To:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Reserved for extended element IDs | 255 | X |  |  |

## Comment

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| **CID** | **Commenter** | **Page** | **Clause** | **Comment** | **Proposed Change** |
| 1103 | Robert Stacey | 904.09 | 9.4.2.1 | The term "Extended Element ID" is not that useful. There is one incorrect use for the term in the standard (at P929L15). Incorrect because the term is defined to mean a combination of fields, but the use here is as a format type of element. Instead, define a term that refers to the elemet format. | Replace "An Extended Element ID is a combination of an Element ID and an Element ID Extension for those elements that have a defined Element ID Extension." with the definition for a new term as follows: "An extension element is an element where the Element ID feld is 255 and the Element ID Extension field is present". Replace the sentence at P929L15 with "The Request element is not an extension element." |

## Proposed resolution:

REJECTED. The term “extended element IDs” is defined and useful, in 9.4.2.1. See also CID 1100.

## Comment

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| **CID** | **Commenter** | **Page** | **Clause** | **Comment** | **Proposed Change** |
| 1107 | Robert Stacey | 916.01 | 9.4.2.1 | "... may be fragmented" is not accurate. This is not an implementation option but dependent on the information content exceeding a threshold. | "A "Yes" in the Fragmentable column of Table 9-87 indicates that the element could have 255 in the Length field and be followed by one or more Fragment elements. A "No" in the Fragmentable column indicates that this is not possible. See 10.28.11." |

## Proposed resolution

REVISED

Change the cited text to:

A "Yes" in the Fragmentable column listed in Table 9-87 (Element IDs) indicates that the element may be fragmented by a transmitter (see 10.28.11 (Element fragmentation(11ai))). Such a fragmented transmission has 255 in the Length field and is followed by one or more Fragment elements. A "No" in the Fragmentable column indicates that this is not possible or is disallowed..