IEEE P802.11  
Wireless LANs

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| Proposed resolution for comments related to  BSS Color Change element (section 9.4.2.222) | | | | |
| Date: 2017-01-19 | | | | |
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Abstract

This submission proposes resolutions for multiple comments related to TGax D1.0 with the following CIDs (9 CIDs): 3037, 7060, 9676, 5400, 5405, 6320, 3179, 5844, 7776

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.***

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| **CID** | **Section** | **Pg / Ln** | **Comment** | **Proposed Change** | **Resolution** |
| 3037 | 9.4.2.222 | 95.43 | Correct typos | remove '-' in Announcement (ln 43), remove s in elements (ln 45) | Revised  The sentence containing ‘Announce-ment’ was edited as part of another CR. The new instance doesn’t have the word hyphenated.  The extra ‘s’ was removed from ‘elements’.  Please see document 11-17/0137r2 |
| 7060 | 9.4.2.222 | 95.43 | "Announce-ment" should be "Announcement" | as in comment | Revised  The sentence containing ‘Announce-ment’ was edited as part of another CR. The new instance doesn’t have the word hyphenated.  Please see document 11-17/0137r2 |
| 9676 | 9.4.2.222 | 95.43 | Remove hyphen from "Announce-ment" | Remove hyphen from "Announce-ment" | Revised  The sentence containing ‘Announce-ment’ was edited as part of another CR. The new instance doesn’t have the word hyphenated.  Please see document 11-17/0137r2 |
| 5400 | 9.4.2.222 | 95.40 | Figure caption. | New BSS Color field format -> New BSS Color Information field format | Accepted  Please see document 11-17/0137r2 |
| 5405 | 9.4.2.222 | 95.29 | No need of a dash in the word subfield | sub-field -> subfield | Accepted  Please see document 11-17/0137r2 |
| 6320 | 9.4.2.222 | 95.28 | Throughout the draft, usage oscillates between "is as defined in Table/Figure" and "is defined in Table/Figure". The latter seems to have the majority. It would be better to choose one variant and to stick to it. | Delete "as". | Accepted  Please see document 11-17/0137r2 |
| 3179 | 9.4.2.222 | 95.22 | In this clause the refrences are to an HE AP and better to do the same in this one: "The Color Switch Countdown field is set to the number of TBTTs that remain until the STA sending the BSS Color Change Announcement element switches to the new BSS Color." | "The Color Switch Countdown field is set to the number of TBTTs that remain until the HE AP sending the BSS Color Change Announcement element switches to the new BSS Color." | Accepted  Please see document 11-17/0137r2 |
| 5844 | 9.4.2.222 | 95.22 | Missing description of how to update the Color Switch Countdown field | Add: If the Color Switch Countdown field value >0, then at the next TBTT, its value is decremented by 1 until it reachs 0. | Revised  Agree with the comment.  Added sentence to section 27.16.2: “If the Color Switch Countdown field carried in BSS Color Change Announcement element has a value greater than 0, then at the next TBTT, its value is decremented by 1 until it reaches 0.”  Please see document 11-17/0137r2 |
| 7776 | 9.4.2.222 | 95.43 | This is a normative permission. In clause 9, state it declaratively. | Change "can be included" to "is optionally included" | Revised  The sentence was split in to two sentence – once to capture the optional case and another for mandatory case where the element is always present.  Please see document 11-17/0137r2 |

TGax Editor: Please modify this section as follows:

* BSS Color Change Announcement element

The BSS Color Change Announcement element is used by an HE AP to advertise a BSS Color change and the value of the new BSS color. The format of the BSS Color Change Announcement element is shown in Figure 9-589cx (BSS Color Change Announcement element format).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  | Element ID | Length | Element ID Extension | Color Switch Countdown | New BSS Color Information |
| Octets: | 1 | 1 | 1 | 1 | 1 |
| * BSS Color Change Announcement element format | | | | | |

The Element ID, Length, and Element ID Extension fields are defined in 9.4.2.1 (General).

The Color Switch Countdown field is set to the number of TBTTs that remain until the [3179]HE AP~~STA~~ sending the BSS Color Change Announcement element switches to the new BSS Color. A value of 0 indicates that the switch occurs at the current TBTT if the element is carried in a Beacon frame or the next TBTT following the frame that carried the element if the frame is not a Beacon.

The format of the New BSS Color Information field is ~~as~~[6320] defined in Figure 9-589cy (New BSS Color field format). The New BSS Color [5405]sub~~-~~field is set to the new BSS Color value that the HE AP intends to use starting from the TBTT at which the Color Switch Countdown reaches 0.

|  |  |  |
| --- | --- | --- |
|  | B0           B5 | B6             B7 |
|  | New BSS Color | Reserved |
| Bits: | 6 | 2 |
| * New BSS Color Information[5400] field format | | |

The BSS Color Change Announcement element is carried in the HE BSS Color Change Announcement frame and ~~can be~~is optionally[7776] included in ~~HE BSS Color Change Announce-ment frame,~~ Beacon, Probe Response, and (Re-)Association Response frames. The use of BSS Color Change Announcement element~~s~~[3037] and frames is described in 27.16.2 (Selecting and advertising new BSS Color).

TGax Editor: Please modify this section as follows:

* Selecting and advertising new BSS Color

TGax Editor: Please modify the 4th paragraph in this section as follows:

If the Color Switch Countdown field carried in BSS Color Change Announcement element has a value greater than 0, then at the next TBTT, its value is decremented by 1 until it reaches 0.[5844] BSS Color change TBTT is the one at which the Color Switch Countdown time has reached 0 and the BSS switches to the new color.