IEEE P802.11
Wireless LANs

|  |
| --- |
| Resolution for CIDs related to BSS Color |
| Date: November 10, 2019 |
| 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 LB244

22404, 22405, 22406, 22407

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: included the list of CIDs in abstract

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** |
| 22404 | Mark RISON |  | 9.6.32.2 | CID 20927. Nothing in the spec suggests that an HE BSS Color Change Announcement frame might be directed to a particular STA, and indeed that would be bad as then other STAs would not know of the colour change | In the referenced subclause change "The HE BSS Color Change Announcement frame is an Action or Action No Ack frame" to "The HE BSS Color Change Announcement frame is an Action No Ack frame" | **Rejected**An HE AP is allowed to send an individually addressed color change announcement frame to a particular STA. This would be the situation when that particular STA has missed a recent color change announcement and transmits a frame to the AP with the old color. |
| 22405 | Mark RISON |  | 9.6.32.2 | CID 20927. Nothing in the spec suggests that an HE BSS Color Change Announcement frame might be directed to a particular STA, and indeed that would be bad as then other STAs would not know of the colour change | In the referenced subclause change "The HE BSS Color Change Announcement frame is an Action or Action No Ack frame" to "The HE BSS Color Change Announcement frame is a broadcast Action frame" | **Rejected**An HE AP is allowed to send an individually addressed color change announcement frame to a particular STA. This would be the situation when that particular STA has missed a recent color change announcement and transmits a frame to the AP with the old color. |
| 22406 | Mark RISON |  |  | CID 20930. The resolution claims that "a STA belonging to an IBSS or mesh BSS can disable color". This is contradicted by "An HE STA belonging to an IBSS or a mesh BSS shall not transmit a BSS Color Change Announcement element." in 26.17.3.4 Selecting and advertising a new BSS color | Make the changes proposed for CID 20930 | **Rejected**BSS Color Change announcement and BSS Color Disablement are two different operations. The former can be initiated only by an HE AP by transmitting an explicit action frame while the latter can be initiated by any HE STA that transmits HE Operation element (such STAs include HE AP, HE STA participating in IBSS, TDLS, Mesh BSS). |
| 22407 | Mark RISON |  | 26.17.3.4 | "An HE STA participating in an IBSS or a mesh BSS may temporarily disable the use of BSScolor if the HE STA determines that a BSS color collision has occurred (see 26.17.3.3 (Disabling BSScolor))." -- but 26.17.3.3 is about infrastructure BSSes (because of the references therein to APs) | Delete the cited text | **Rejected**The 1st paragraph in 26.17.3.3 in generic and applies to any HE STA. The paragraph describes the operation with respect to an HE STA that transmits an HE Operation element. Such a STA could be a STA participating in a mesh BSS, IBSS or Infra-BSS. |