IEEE P802.11  
Wireless LANs

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| CR for BSS Color Related CIDs Part 2 | | | | |
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Abstract

This submission proposes resolutions for CIDs 22504, 22534, 22535, 22537, 22538, 22539, 22540, 22541, 22542, 22543 and 22544.The baseline for this comment resolution document is 802.11ax Draft 5.0.

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| **CID** | **Clause** | **Page** | **Line** | **Comment** | **Proposed Change** | **Resolution** |
| 22504 | 26.2.2 | 309 | 6 | When BSS color is temporarily disabled, it can not use BSS color to classify the PPDU as intra-BSS PPDU or do intra-PPDU power save. But it can use BSS color to classify the PPDU as inter-BSS PPDU. We can not restrict all the use when the BSS color is temporarily disabled. | change the sentence to "If a STA determines that the BSS color is temporarily disabled (see 26.17.3.3 (Disabling BSS color)), then the RXVECTOR parameter BSS\_COLOR of a PPDU shall not be used to classify the PPDU as intra-BSS PPDU." | Rejected  By enabling classifying PPDUs as inter-BSS PPDUs when BSS Color is disabled, it will cause classification problems for co-hosted BSSs when some of the BSSs in the co-hosted BSS has already switched to the new BSS color while others have not, as shown in Clause 27.17.3.4 |
| 22534 | 26.17.3.1 | 456 | 28 | "A non-AP HE STA associated with an HE AP that is transmitting an HE PPDU in a direct path to a TDLS peer STA..." I interpreted this sentence to that an AP is transmitting a PPDU in a direct path. But it is wrong. For avoding ambiguity, change to "When a non-AP HE STA is associated with an HE AP, the non-AP HE STA transmitting an HE PPDU in a direct path to a TDLS peer STA shall set..." | As in the comment. | Revised  Agree with the commenter.  TGax editor: please make changes in 11-19/1977r1 under all headings of CID 22534. |
| 22535 | 26.17.3.1 | 456 | 32 | "An HE STA associated with a non-HE AP that is the initiating STA of the TDLS link..." I interpreted this sentence to that an AP is the initiating STATE of the TDLS link. But it is wrong. For avoding ambiguity, change to "When a non-AP HE STA is associated with an HE AP, the non-AP HE STA transmitting an HE PPDU in a direct path to a TDLS peer STA shall set..." | As in the comment. | Revised  Agree with the commenter.  TGax editor: please make changes in 11-19/1977r1 under all headings of CID 22535. |
| 22537 | 26.17.3.1 | 456 | 43 | "...may disable BSS color by follow the procedure in..." Fix the typo: "by following". | As in the comment. | Revised  Agree with the commenter.  TGax editor: please make changes in 11-19/1977r1 under all headings of CID 22535. |
| 22538 | 26.17.3.1 | 456 | 55 | Combine the following two sentences: "A non-AP HE STA may following the procedure in 26.17.3.5 (Detecting and reporting BSS color collision) to determine and report a BSS color collision to the AP with which is associated." "An HE STA that transmits an HE Operation element may determine that a BSS color collision has occurred by following the procedure in 26.17.3.5 (Detecting and reporting BSS color collision)." as the following: o "An HE STA may follow the procedure in 26.17.3.5 (Detecting and reporting BSS color collision) to determine and report a BSS color collision." | As in the comment. | Rejected  It is more clear to have the two sentences to state actions from STAs that transmit HE Operation element and non-AP STAs. |
| 22539 | 26.17.3.5.1 | 458 | 40 | "An HE AP may determine that a BSS color collision has occurred if it receives frames on its primary channel from an OBSS STA containing the same BSS color..." Frames do not contain the BSS color. Change the frames to the HE PPDUs. | As in the comment. | Accepted |
| 22540 | 26.17.3.5.2 | 458 | 56 | "a frame...with the same color as it associated BSS." A frame does not contain the BSS color. Change to an HE PPDU. | As in the comment. | Accepted |
| 22541 | 26.17.3.5.2 | 459 | 11 | "A non-AP HE STA that intends to autonomously report a BSS color collision to its associated HE AP shall do so by scheduling for transmission a BSS color collision Event Report frame every dot11BSSColorCollisionSTAPeriod..." So , do so what? Change to: "... shall schedule for transmission a BSS color collision Event Report frame..." | As in the comment. | Accepted |
| 22542 | 26.17.3.5.2 | 459 | 14 | more than two but not many | As in the comment. | Revised  The language has been changed to change “several”. It is meant to say that it is a certain number of reports that is determined by implementation. And the text has been changed to reflect that.    TGax editor: please make changes in 11-19/1977r1 under all headings of CID 22542. |
| 22543 | 26.17.3.5.2 | 459 | 14 | "if the non-AP STA has transmitted several such reports to its associated HE AP." Oof, please clarify the several. In a dictionary, "several" says more than two but not many. So, in here, the several means more than two reports? Then just change to "more than two reports". | As in the comment. | Revised  The language has been changed to change “several”. It is meant to say that it is a certain number of reports that is determined by implementation. And the text has been changed to reflect that.    TGax editor: please make changes in 11-19/1977r1 under all headings of CID 22543. |
| 22544 | 26.17.3.5.2 | 459 | 12 | "...dot11BSSColorCollisionSTAPeriod unless the BSS color collision no longer exists or if the associated HE AP has set the BSS Color Disabled bit to 1 in HE Operation element that it transmits or if the non-AP STA has transmitted several such reports to its associated HE AP." Remove "if" because "if" and "unless" are making a confuse. | As in the comment. | Revised  Agree that the text can be clarified. The text has been changed to further clarify the conditions.    TGax editor: please make changes in 11-19/1977r1 under all headings of CID 22544. |

***TGax Editor: Please modify the paragraph at P456L28 (802.11ax Draft 5.0) as follows CID 22534, 22535:***

A non-AP HE STA, if associated with an HE AP, that is transmitting an HE PPDU in a direct path to a TDLS peer STA shall set the BSS Color subfield of the HE Operation element it transmits to the peer STA to the value indicated in the BSS Color subfield of the HE Operation element received from the HE AP. An HE STA, if associated with a non-HE AP, that is the initiating STA of the TDLS link shall use the same active BSS color for all its TDLS links by setting the BSS Color subfield of the HE Operation element it transmits to the TDLS peer HE STA to the value of BSSID[39:44] of the non-HE AP or the transmitted BSSID[39:44] of the non-HE AP if the AP indicates the support of multiple BSSID in its Extended Capabilities element.

An HE STA that transmits an HE Operation element shall select an initial BSS color by following the procedure in 26.17.3.2 (Initial BSS color).

An HE STA that transmits an HE Operation element may disable BSS color by following the procedure in 26.17.3.3 (Disabling BSS color).

***TGax Editor: Please modify the paragraph at P459L9 (802.11ax Draft 5.0) as follows CID 22542, 22543 and 22545:***

A non-AP HE STA that intends to autonomously report a BSS color collision to its associated HE AP shall do so by scheduling for transmission a BSS color collision Event Report frame every dot11BSSColorCollisionSTAPeriod unless one of the following conditions is satisfied:

— the BSS color collision no longer exists

— the associated HE AP has set the BSS Color Disabled bit to 1 in HE Operation element that it transmits

— the non-AP STA has transmitted a certain number of such reports to its associated HE AP.

NOTE—The number of BSS color collision event reports a non-AP STA transmits to its associated AP is out of scope of this standard.