IEEE P802.11  
Wireless LANs

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| LB244 CR MAC Miscellaneous | | | | |
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Abstract

This submission proposes resolutions of comments received from TGax LB244.

(The proposed change is based on TGax Draft 5.0.)

* CIDs: 22087, 22120, 22178, 22265, 22357, 22358 (6 CIDs)

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** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| --- | --- | --- | --- | --- | --- |
| 22087 | 162.00 | 9.4.2.67.8 | BSS Color In Use can also be reported y an AP (AP1) to its associated STAs, i.e. in order to avoid the collision with AP's co-located STA Tx/Ex with its AP (AP2). | As in comment | Rejected-  After receiving the BSS color in use event report from the AP1, if the AP2 wants more reliable transmission (avoiding the collision caused by the SR transmission from the associated STAs of the AP1) to the AP1, the AP2 may use the RTS/CTS protocol.  And, if the AP1 disallows all SR transmissions on the BSS color associated with the AP2, the performance can be degraded. |
| 22120 | 298.04 | 11.22.2.8 | The BSS color in Use should also be applied to STA's co-located AP | Change the text per the comment. | Rejected-  After receiving the BSS color in use event report from the AP1, if the AP2 wants more reliable transmission (avoiding the collision caused by the SR transmission from the associated STAs of the AP1) to the AP1, the AP2 may use the RTS/CTS protocol.  And, if the AP1 disallows all SR transmissions on the BSS color associated with the AP2, the performance can be degraded. |
| 22178 | 365.19 | 26.5.9 | "An non-AP HE STA may include the UL MU Power Capabilities element in an (Re)Association Request frame in order to inform an HE AP of the relative maximum transmit power that the non-AP HE STA is capable of transmitting an HE TB PPDU for each HE-MCS in the current operating channel width when using an RU size greater than or equal to 242 subcarriers." is duplicative of Table 9-36--Association Request frame body / Table 9-38--Reassociation Request frame body | Change "include the UL MU Power Capabilities element in an (Re)Association Request frame in order to inform" to "use an UL MU Power Capabilities element to inform" | Accepted |
| 22265 | 215.20 | 9.4.2.262 | "The UL MU Power Capabilities element indicates the relative maximum transmit power that a STA is capable of transmitting an HE TB PPDU for each HE-MCS in the operating channel width" -- but this doesn't work, because the operating channel width can change (and there's no mechanism for the element to be updated, since it's only included in the (re)assoc req) | Delete " in the operating channel width" from the cited text. In 26.5.9 delete "in the current operating channel width " | Rejected-  Even though the operating channel width is changed (e.g., 80MHz to 20 MHz), it is not necessary to update the relative maximum transmit power.  “in the operating channel width” means that this the relative maximum transmit power is valid only within the current operating channel.  So, it does not represent the power beyond the current operating channel. |
| 22357 | 459.26 | 26.17.4 | CID 20466. Equation (26-8) can result in a negative first operand to the mod operator, which is not clear. This was rejected on the basis that 1.4 defines the behaviour, but the point of the comment was to add a xref for this | At the end of 26.17.4 AID assignment add a "NOTE---See 1.5 for the behaviour of the mod operator with a negative first operand." | Accepted |
| 22358 |  | 26.11.4 | CID 20469. It is not clear what happens if an AP assigns an AID while Partial BSS Color in HE Operation is 0, and then subsequently changes Partial BSS Color to 1 | Change the first sentence of the last para of 26.11.4 BSS\_COLOR to "If the BSS color is such that the value of TXVECTOR parameter PARTIAL\_AID [5:8] for VHT PPDUs transmitted by an HE AP with the TXVECTOR parameter GROUP\_ID equal to 63 would not be consistent, for all associated STAs, with the partial BSS color (i.e., BCB(0:3) described in 26.17.4 (AID assignment)) announced by the HE AP, then the HE AP shall set the Partial BSS Color field in the HE Operation element to 0." | Revised-  Agree in principle. But, the rule is only applied for the associated VHT and HE STA.  TGax editor makes changes as specified in 11-19/1957r1 for CID 22358. |
| ***TGax Editor: Change 26.11.4 (BSS\_COLOR) (#22358):***  **26.11.4 BSS\_COLOR**  If the BSS color is such that the value of TXVECTOR parameter PARTIAL\_AID [5:8] for VHT PPDUs transmitted by an HE AP with the TXVECTOR parameter GROUP\_ID equal to 63 would not be consistent, for all associated STAs, with the partial BSS color (i.e., BCB(0:3) described in 26.17.4 (AID assignment)) announced by the HE AP,  If the value of TXVECTOR parameter PARTIAL\_AID [5:8] for VHT PPDUs transmitted ~~by~~ from an HE AP to all associated VHT and HE STAs with the TXVECTOR parameter GROUP\_ID equal to 63 ~~is not~~ would not be consistent with the partial BSS color (i.e., *BCB*(0:3) described in 26.17.4 (AID assignment)) announced by the HE AP, then the HE AP shall set the Partial BSS Color field in the HE Operation element to 0. Otherwise, the HE AP may set the Partial BSS Color subfield in the HE Operation element to 1 (see 26.17.4 (AID assignment)). | | | | | |