IEEE P802.11  
Wireless LANs

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| **TGax D0.1 Comment Resolutions for SR CCA rules CIDs in clause 25.9** |
| **Date:** 2016-11-2 |
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Abstract

This submission proposes resolutions for the following 14 SR comments to TGax spec draft D0.1 in clause 25.9:

* CID 187, 224, 803, 1233, 1578, 1579, 2284, 2433, 2666, 2912, 2915, 2916, 2917

#### *CIDs for SR CCA rules in Clause 25.9*

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| **CID** | **Commenter** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 2433 | Yongho Seok | 63.26 | Sub-clause 25.9.2 (Color code based CCA rules) is describing the CCA rule based on COLOR or MAC address, as specified in the first paragraph. "An STA determines whether a detected frame is an inter-BSS or an intra-BSS frame by using BSS color or MAC address in the MAC header."  Because the Sub-clause 25.9.2 is not restricted to the COLOR, change the title of the sub-clause to more general name. One suggestion is "Spartial Reuse CCA rules for HE STA". | As per comment | Revised.  The comment has been resolved by 11-16/1223r6 and approved by TGax. And the modification has been reflected into D0.5 |
| 1578 | Mark Rison | 63.25 | This subclause talks of "its associated AP" but don't APs also do Color code based CCA rules? | Reword to equally apply to all STAs in the BSS, including the AP | Revised  The comment has been resolved by 11-16/1223r6 and approved by TGax. And the modification has been reflected into D0.5. |
| 1579 | Mark Rison | 63.42 | It says "receives sensitivity level" | Change to "receive sensitivity level" | Revised  The comment has been resolved by 11-16/1223r6 and approved by TGax. And the modification has been reflected into D0.5. |
| 2284 | Xiaofei Wang | 63.52 | Draft states: "A STA should revise the NAV depending on TBD conditions at the recipient of the ongoing OBSS frame" while the SFD states: "The specification to consider a procedure that may revise the NAV depending on TBD conditions at the recipient of the ongoing OBSS frame." | change "should" to "may" in the referenced sentence. | Revised  The comment has been resolved by 11-16/1223r6 and approved by TGax. And the modification has been reflected into D0.5. |
| 2666 | Young Hoon Kwon | 63.52 | The sentence has no meaning unless TBD condition is clarified. | Delete the sentence or specify the TBD conditions. | Revised  The comment has been resolved by 11-16/1223r6 and approved by TGax. And the modification has been reflected into D0.5. |
| 187 | Alfred Asterjadhi | 81.41 | Four TBDs that need to be defined. Also shouldn't this normative behaviors be part of the PHY subclause? Need to separate the two concepts (PHY.CCA descriptions are provided in the PHY subclause and NAV settings are provided in MAC (NAV was already defined in some other preceding subclause.). In general both this subclause and the next subclause need to be rewritten. | As in comment. | Revised  The comment has been resolved by 11-16/1223r6 and approved by TGax. And the modification has been reflected into D0.5. |
| 803 | Jing Ma | 63.41 | The kind of environment or deployment scenario where the OBSS PD level is applicable is not specified. | Specify for what kind of scenario the OBSS PD level is applicable | Revised  The comment has been resolved by 11-16/1223r6 and approved by TGax. And the modification has been reflected into D0.5. |
| 2912 | Guido Hiertz | 63.41 | Addressing the TBD condition to apply spatial reuse: if the detected inter-BSS frame is coded with the lowest MCS, no additional interference should be introduced due to the potential low SINR at the receiver of the inter-BSS frame and/or high importance of the inter-BSS frame | If the detected frame is an inter-BSS frame, when the inter-BSS frame is not modulated with MCS 0, uses TBD OBSS PD level that is greater… | Revised  The comment has been resolved by 11-16/1223r6 and approved by TGax. And the modification has been reflected into D0.5. |
| 2915 | Guido Hiertz | 63.41 | Addressing the TBD condition to apply spatial reuse: MU transmission involves considerable overhead and should be protected | If the detected frame is an inter-BSS frame, when the inter-BSS frame is not a MU OFDMA or MU MIMO transmission, uses TBD OBSS PD level that is greater… | Revised  The comment has been resolved by 11-16/1223r6 and approved by TGax. And the modification has been reflected into D0.5. |
| 2916 | Guido Hiertz | 63.41 | Addressing the TBD condition to apply spatial reuse: MU transmission involves overhead to establish and should be protected | If the detected frame is an inter-BSS frame, when the inter-BSS frame is modulated with the highest MCS, uses TBD OBSS PD level that is greater… | Revised  The comment has been resolved by 11-16/1223r6 and approved by TGax. And the modification has been reflected into D0.5. |
| 2917 | Guido Hiertz | 63.41 | Addressing the TBD condition to apply spatial reuse: in a controled radio enviornent, e.g. enterpriese, where an operator plans deployoment, interference between two DL transmissions or two UL transmissions is expected to be small. So spatail reuse should be allowed. | If the detected frame is an inter-BSS frame, when the transmitter of the inter-BSS frame is of the same type (AP or non-AP) as the STA, uses TBD OBSS PD level that is greater… | Revised  The comment has been resolved by 11-16/1223r6 and approved by TGax. And the modification has been reflected into D0.5. |

Discussion:

The commented spec text has been modified in D0.5 as part of the resolution in 11-16/1223r6.

----------------End of resolution to CID 2433/1578/1579/2284/2666/187/803/2912/2915/2916/2917------

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| **CID** | **Commenter** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 224 | Alfred Asterjadhi | 80.46 | The frames which were ignored for spatial reuse should be recorded for radio resource measurement purposes. | As in comment | Rejected  The comment doesn’t provide an applicable change suggestion. |

----------------End of resolution to CID 224---------------------------------------

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| **CID** | **Commenter** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 1233 | Mark Hamilton | 63.45 | The concept of "BSS color" for purposes of detecting overlapping signals needs to be carefully considered with respect to impacts of, or on, regulations. | The operation of the "BSS color" feature, including especially the signal levels used (PD, ED, and transmit power), should be disucssed more fully in the context of impacts from regulations, and especially in light of potential impacts on future regulations and assumptions. | Rejected  The comment doesn’t provide an applicable change suggestion. |

Discussion: Principly agree with the intention of the comment. But it is very hard to incorporate a well-texted resolution for this comment. The rejection to this comment at this moment implies more offline discussion needed on this issue.

----------------End of resolution to CID 1233---------------------------------------