IEEE P802.11
Wireless LANs

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| CR for Misc CIDs |
| Date: 2019-10-07 |
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Abstract

This document provides CR for CIDs: 20090 20099 20245 20367 20368 20372 20570 20599 20638 20668 20810 21525

1. **Introduction**

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. The introduction and the explanation of the proposed changes are 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** | **Commenter** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 20090 | Albert Petrick | 738.00 | ANNEX E | Annex E defines global operating classes for 5 GHz. Add a table for US Operating Classes for U-NII-5, U-NII-6 and U-UNII-7 for US. | As commented | Revised - agree with the commenter. Apply the changes marked as 20090 as porposed in this document. |
| 20099 | Albert Petrick | 276.54 | 11.3.3.2 | Power save mode clause reference missing. A reference clause should be added to be consistent with the preceding text on line 52 | Add "as described in clause 11.2.2.2 (STA Power Management modes). | Reject - Reference is not needed in the second sub-bullet.  |
| 20245 | James Yee | 39.59 | 3.2 | The definition of "Spatial Reuse" based on a single PPDU transmission predicated on what would have 'normally' prevented the transmission is too vague and not useful. Should be defined as a mode of operation. | Define SR as: A BSS operating mode that allows the medium to be reused more often between OBSSs in dense deployment scenarios by the early identification of signals from overlapping basic service sets (OBSSs) and interference management.Or, delete the definition. | Reject - the definition is to cover for all the spatial reuse cases defined in 802.11. We can not indicate in the definition that "the medium will be reused more often". |
| 20367 | Laurent Cariou | 284.29 | 11.35.2 | OCT support shall also be indicated if a reporting AP sends a Neighbor Report describing a reported AP. Define a new field in the Neighbor Report element to describe that both the reported and reporting AP supports OCT, and modify the conditions to indicate support for OCT in section 11.35.2 | As in comment | Revised - this CID was resolved with CID20366 in the latest revision of document 19/417. Apply the changes marked as CID20366 as proposed in the latest revision of document 19/417. |
| 20368 | Laurent Cariou | 284.29 | 11.35.2 | OCT support could also be indicated for all the APs that are part of the same ESS. This could be done by adding a field in the ESS Report element | Include a new field in the ESS Report element to indicate that within this ESS, OCT is supported. |  |
| 20372 | Laurent Cariou | 284.29 | 11.35.2 | There should be a simpler way for a non-AP STA to indicate support for OCT than including a multiband element in probe request, association requests, ... This requirement could be relaxed or a simple capability could be defined | Same as comment | resolved in doc 417 |
| 20570 | Mark RISON | 69.40 | 9.2.4.1.8 | "The QoS Info field is pres-ent in the QoS Capability, EDCA Parameter Set, and MU EDCA Parameter Set elements transmitted by anHE AP." -- duplication | Delete the cited text at the referenced location | Accept |
| 20599 | Mark RISON | 276.50 | 11.2.3.2 | The "unavailable" state is the same as the doze state. The only point is that a device in Active mode can be in the unavailable state. It would be clearer to just allow an HE device in Active mode to enter doze state | Change "become unavailable" to "enter the doze state" throughout. Then change "unavailable" to "in doze state" throughout except in 9.2.4.6a.6 | Reject - unavailable is not the same as doze state. |
| 20638 | Mark RISON | 117.53 | 9.3.3.3 | The ESS Report might be useful in a non-HE BSS too (and indeed 11.22.7.5 has no HE restrictions) | Delete " if dot11HEOptionImplemented is true; otherwise it is not present" at the referenced location. At 51.37 delete "if dot11HEOptionImplemented is true; otherwise not present" | Accept |
| 20668 | Mark RISON |  |  | In the context of 19/0095 it was not clear whether the spec allows more than one RNR per frame. It doesn't (compare in baseline "The Reduced Neighbor Report element is optionally present if" with "One or more Neighbor Report elements are present only in") | Address the suggestion that there could be multiple RNRs | Reject - doc 19/0095 was not agreed. As mentioned in the comment, it is clear that there is only one RNR in the frame. |
| 20810 | Mark RISON | 117.48 | 9.3.3.3 | Presumably, like EDCA Parameter Set and QoS Capability, MU EDCA Parameter Set should not be present in a mesh. Actually, 26.2.7 requires that MU EDCA be present if EDCA is present. Also it's MU EDCA Parameter Set, not just MU EDCA Parameter | In Table 9-34 change "The MU EDCA Parameter element is optionally present if dot11HE-OptionImplemented is true and the QoS Capability element is notpresent" to "The MU EDCA Parameter Set element is optionally present if dot11HE-OptionImplemented is true and the EDCA Parameter Set element is present" and " neither the EDCA Parameter Set element nor the MU EDCA Parameter Set element are is not present" to " the EDCA Parameter Set element is not present". In Tables 9-37, 9-39, 9-41 change "The MU EDCA Parameter Set element is optionally present ifdot11HEOptionImplemented is true" to "The MU EDCA Parameter Set element is optionally present ifdot11HEOptionImplemented is true and the EDCA Parameter Set element is present" | Revised - agree in primciple with the comment. It is simpler to have the same requirements as for EDCA parameter set element, i.e. describe it with regards to the present of the QoS capabilities element. Apply the changes as proposed in doc 413r4. |
| 21525 | Yongho Seok | 430.38 |  | "A 6 GHz HE STA shall determine the BSS channelization using the information in the Primary Channel field in the 6 GHz Operation Information field in the HE Operation element when operating in 6 GHz band (see 27.3.22.2 (Channel allocation in the 6 GHz band))."The BSS channelization is not clear. How is the secondary channel determined?If the basic assumption is an non-overlapping channel allocation, the channels of 6 GHz band of Annex E shall has the behvior limit set. (e.g., PrimaryChannelLowerBehavior and PrimaryChannelUpperBehavior). | As in comment | Revised - all possible channels are defined in Annex E table, each with the corresponding center frequency and BW, so there is no need for indication of PrimaryChannelLowerBehavior indication. However, the sentence that describes how a STA determines the BSS channelization is incomplete. Change the sentence "A 6 GHz HE STA shall determine the BSS channelization using the information in the Primary Channel field in the 6 GHz Operation Information field in the HE Operation element when operating in 6 GHz band (see 27.3.22.2 (Channel allocation in the 6 GHz band))." into the following sentence: "A 6 GHz HE STA shall determine the BSS channelization using the information in the Primary Channel field, the Channel Center Frequency Segment 0 field and the Channel Center Frequency Segment 1 field in the 6 GHz Operation Information field in the HE Operation element when operating in 6 GHz band (see 27.3.22.2 (Channel allocation in the 6 GHz band))."  |

1. **Proposed changes**

***TGax editor: Add the following lines to Table E-1 – Operating classes in the United States (#20090)***

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| * Operating classes in the United States
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| Operating class | Global operating class (see Table E-4 (Global operating classes))  | Channel starting frequency (GHz) | Channel spacing (MHz) | Channel set | Channel center frequency index | Behavior limits set |
| 131 | 131 | 5.940 | 20 | — | 1, 5, 9, 13, 17, 21, 25, 29, 33, 37 ,41, 45, 49, 53, 57, 61, 65, 69 ,73, 77, 81, 85, 89, 93, 97, 101, 105, 109, 113, 117, 121, 125, 129, 133, 137, 141, 145, 149, 153, 157, 161, 165, 169, 173, 177, 181, 185, 189, 193, 197, 201, 205, 209, 213, 217, 221, 225, 229, 233 |  |
| 132 | 132 | 5.940 | 40 | — | 3, 11, 19, 27, 35, 43, 51, 59, 67, 75, 83, 91, 99, 107, 115, 123, 131, 139, 147, 155, 163, 171, 179, 187, 195, 203, 211, 219, 227 |  |
| 133 | 133 | 5.940 | 80 | — | 7, 23, 39, 55, 71, 87, 103, 119, 135, 151, 167, 183, 199, 215 |  |
| 134 | 134 | 5.940 | 160 | — | 15, 47, 79, 111, 143, 175, 207 |  |
| 135 | 135 | 5.940 | 80 |  | 7, 23, 39, 55, 71, 87, 103, 119, 135, 151, 167, 183, 199, 215 | 80+ |

***TGax editor: Change the following lines in table E-4 Global operating classes (#20090)***

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| * Global operating classes
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| Operating class | Nonglobal operating class(es) | Channel starting frequency (GHz) | Channel spacing (MHz) | Channel set | Channel center frequency index | Behavior limits set |
| 131 | E-1-131 | 5.940 | 20 | — | 1, 5, 9, 13, 17, 21, 25, 29, 33, 37 ,41, 45, 49, 53, 57, 61, 65, 69 ,73, 77, 81, 85, 89, 93, 97, 101, 105, 109, 113, 117, 121, 125, 129, 133, 137, 141, 145, 149, 153, 157, 161, 165, 169, 173, 177, 181, 185, 189, 193, 197, 201, 205, 209, 213, 217, 221, 225, 229, 233 |  |
| 132 | E-1-132 | 5.940 | 40 | — | 3, 11, 19, 27, 35, 43, 51, 59, 67, 75, 83, 91, 99, 107, 115, 123, 131, 139, 147, 155, 163, 171, 179, 187, 195, 203, 211, 219, 227 |  |
| 133 | E-1-133 | 5.940 | 80 | — | 7, 23, 39, 55, 71, 87, 103, 119, 135, 151, 167, 183, 199, 215 |  |
| 134 | E-1-134 | 5.940 | 160 | — | 15, 47, 79, 111, 143, 175, 207 |  |
| 135 | E-1-135 | 5.940 | 80 |  | 7, 23, 39, 55, 71, 87, 103, 119, 135, 151, 167, 183, 199, 215 | 80+ |