IEEE P802.11
Wireless LANs

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| CIDs on Annex E |
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Abstract

Proposed resolutions to CIDs 11007, 11044, 11043, 11042, 11041, 11040 and 11045.

R1 changes resolutions for CID 11045 and provides additional corrections to Tables E-4 and E-5 per TGac discussion August 22, 2013.

Editing instructions are based on modifying P802.11ac\_D6.0.

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 TGac Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGac Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGac Editor: Editing instructions preceded by “TGac Editor” are instructions to the TGac editor to modify existing material in the TGac draft. As a result of adopting the changes, the TGac editor will execute the instructions rather than copy them to the TGac Draft.***

The editing instructions are shown in ***bold italic***. Four editing instructions are used: ***change, delete, insert, and replace***. Change is used to make corrections in existing text or tables. The editing instruction specifies the location of the change and describes what is being changed by using ~~strikethrough~~ (to remove old material) and underscore (to add new material). ***Delete*** removes existing material. ***Insert*** adds new material without disturbing the existing material. Insertions may require renumbering. If so, renumbering instructions are given in the editing instruction. ***Replace*** is used to make changes in figures or equations by removing the existing figure or equation and replacing it with a new one. Editorial notes will not be carried over into future editions because the changes will be incorporated into the base standard.

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| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** |
| 11041 | 398.1 | E.1 | The editing instruction to add a behavior misspells "Behavior" and "non" "Bahavior limits set column for all on-reserved rows". Same misspellings in Page 399 for Tables E-2 and E-3. | Correct editing instruction to "Behavior limits set column for all 5150-5850 MHz non-reserved rows" |
| 11042 | 398.2 | E.1 | The editing instruction should not be applied to Operating Classes 6-18 and 32-34, which are not 5150-5850 MHz classes. | Correct editing instruction to "Behavior limits set column for Classes 1-5 and 23-31" |
| 11043 | 399.2 | E.1 | The editing instruction should not be applied to Operating Classes 4, 11-15 and 18, which are not 5150-5850 MHz classes. | Correct editing instruction to "Behavior limits set column for Classes 1-3, 5-10, 16 and 17" |
| 11044 | 399.38 | E.1 | The editing instruction should not be applied to Operating Classes 2-31, 46-57 and 57, which are not 5150-5850 MHz classes. | Correct editing instruction to "Behavior limits set column for Classes 1, 32-45 and 58" |

**Discussion** Comment 11041 proposes to correct the Table E-1 editing instruction ***In addition, add “UseEirpForVHTTxPowEnv” to the Bahavior limits set column for all on-reserved rows in the table that do not have this Behavior limits set:***

by restricting it to apply to 5 GHz rows, but the proposed language can be improved. Comment 11042 proposes to correct Table E-1 editing instruction, however it also needs to be applied to Operating Class 22, so change editing instruction to “***In addition, add “UseEirpForVHTTxPowEnv” to the Behavior limits set column for Classes 1-5 and 22-31:”*** CIDs 11043 and 11044 propose similar corrections to the editing instructions for Tables E-2 and E-3 correctly.

**Propose** Revised for CIDs 11041, 11042 and Accepted for CIDs 11043, 11044 per discussion and editing instructions in 802.11-13/987r0.

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| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** |
| 11007 | 398.20 | E.1 | Channels 140 and 144 have been added to Table E-1 (operating classes in US), but similar changes seem to be missing from Table E-4 (global operating classes). The US operating classes have a pointer to Table E-4 and I would expect to see matching changes in the global table to allow these new channels to be indicated in cases where the global table is used. | Add channel 144 to the Table E-4 global operating class 121.Add channel 140 to the Table E-4 global operating class 122.Add channel 144 to the Table E-4 global operating class 123.Fix Table E-1 operating class 29 to have correct reference to the global operating class: replace "128" with "123". |

**Discussion** Comment 11007 proposes to correct both Table E-1 and E-4 to add operations on channels 140 and 144. Table E-4 Global Operating Classes should have an equivalent Operating Class for each set of Behavior Limits and channels as any of the non-Global tables.

**Propose** Accepted for CID 11007 per discussion and editing instructions in 802.11-13/987r0.

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| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** |
| 11040 | 400.35 | E.1 | Table E-4 Global Operating Classes should have an equivalent Operating Class for each set of Behavior Limits and channels as any of the non-Global tables. It looks like Global Classes 115, 116, 118, 119, 125 and 126 need to have an additional behavior added - "UseEirpForVHTTxPowEnv". The insertion of Table E-5 is unnecessary as all required Operating Classes are available in Table E-4. | Add "UseEirpForVHTTxPowEnv" to the Behavior Limits sets of classes 115, 116, 118, 119, 125 and 126, and add a NOTE "NOTE 1--The channel spacing for operating classes 116, 119 and 126 is for the supported channel width rather than the operating channel width. In these operating classes, the AP operates in a 20/40 MHz BSS, and the operating channel width for a non-AP STA is either 20 MHz or 40 MHz.". Delete tect in page 401 lines 1-50. |
| 11045 | 401.55 | E.1 | Table E-5 is not required if all the Operating Classes and Notes therein are in Table E-4 Global operating classes, so the changes to the second to the last paragraph are not needed and should be removed. | Delete the page 401 line 1 editing instruction and Table E-5. Change the editing instruction on line 52 to change the NOTE preceeding the last paragraph of E.1. |

**Discussion** Comment 11040’s proposed change to correct E-4 to add "UseEirpForVHTTxPowEnv" can be improved to apply to existing classes 115-127, which span 5150-5850 MHz. Table E-4 lacks the NOTE 1 about operation using supported channel width in 40 MHz classes, and the proposed change should also include channels 117, 120, 122, 123 and 127: “The channel spacing for operating classes 116, 117, 119, 120, 122, 123, 126 and 127 is for the supported channel width”. Comment 11045’s proposed change is to delete the insertion of Table E-5 and correct the editing instruction to insert a second note. The resolutions in CIDs 11007 and 11041 correct the changes to Table E-4 so E-4 has an equivalent Operating Class for each non-global Operating Class in the standard. Table E-4 can be used in any country, and eventually Tables E-1 through E-3 and E-5 can be marked obsolete. In the meantime, corrections to Table E-5 after August 22 TGac discussion is provided.

**Propose** Revised for CID 11040 and Rejected for CID 11045 per discussion and editing instructions in 802.11-13/987r0.

**Editing Instructions**

E.1 Country information and operating classes

***TGac Editor:***

***On page 398 line 29, Change Operating Class 29’s Global operating class from 128 to 123***

On page 398, line 1, Change last line of editing instruction as follows:

***In addition, add “UseEirpForVHTTxPowEnv” to the Be~~a~~havior limits set column for Classes 1-5 and 22-31 ~~all on-reserved rows in the table that do not have this Behavior limits set~~:***

On page 398, line 58, Change last line of editing instruction as follows:

***In addition, add “UseEirpForVHTTxPowEnv” to the Be~~a~~havior limits set column for Classes 1-3, 5-10, 16 and 17 ~~all on-reserved rows in the table that do not have this Behavior limits set~~:***

On page 399, line 37, Change last line of editing instruction as follows:

***In addition, add “UseEirpForVHTTxPowEnv” to the Be~~a~~havior limits set column for Classes 1, 23-45 and 58 ~~all on-reserved rows in the table that do not have this Behavior limits set~~:***

On page 400, line 21, Change next to last line of editing instruction as follows:

***insert a NOTE 1*** "NOTE 1--The channel spacing for operating classes 116, 117,119, 120, 122, 123, 126 and 127 is for the supported channel width rather than the operating channel width. In these operating classes, the AP operates in a 20/40 MHz BSS, and the operating channel width for a non-AP STA is either 20 MHz or 40 MHz." ***and renumber the existing note as NOTE 2.~~note)~~ In addition, add “UseEirpForVHTTxPowEnv” to the Be~~a~~havior limits set column for Classes 115-127~~all on-reserved rows in the table that do not have this Behavior limits set~~:***

On page 401, line 1, insert editing instruction as follows:

In Table E-4 in column Non-global operating classes, insert Table E-5 references as follows:

Class 115: E-5-1

Class 116: E-5-4

Class 118: E-5-2

Class 119: E-5-5

Class 125 : E-5-3

Class 126: E-5-6

Class 81: E-5-7

Class 83: E-5-8

Class 84: E-5-9

Class 128: E-5-128

Class 129: E-5-129

Class 130: E-5-130

On page 401, line 1, Change Table E-5 inserting 2.4 GHz classes7, 8, 9 and renumbering Reserved as follows:

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| Operating class | Global operating class | Channel starting frequency(GHz) | Channel spacing (MHz) | Channel set | Channel center frequency index | Behavior limits set |
| 7 | 81 | 2.407 | 25 | 1, 2, 3, 4, 5, 6, 7, 8,9, 10, 11, 12, 13 |  | LicenseExemptBehavior |
| 8 | 83 | 2.407 | 40 | 1-9 |  | LicenseExemptBehavior,PrimaryChannelLowerBehavior |
| 9 | 84 | 2.407 | 40 | 5-13 |  | LicenseExemptBehavior,PrimaryChannelUpperBehavior |
| 10~~7~~-127 | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved |