IEEE P802.11
Wireless LANs

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| TGah D0.1 PHY Comment Resolutions on Annex E |
| Date: 2013-09-14 |
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This document provides PHY resolutions for CIDs on Annex E.

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| **CID** | **Commenter** | **Clause Number** | **Page** | **Line** | **Comment** | **Proposed change** | **Resolution** |
| 586 | Peter Ecclesine | E.1 | 309 | 45 | In Annex E Table E.1, the NOTE is not needed as US regulations do not channelize the 900 MHz band in 1 MHz increments. FCC 15.247(a)(2) specifies the minimum digital modulation bandwidth is 500 kHz. | Delete NOTE. | ACCEPT.Refer to Doc. 13/1118r1. |
| 731 | Ronald Murias | E.1 | 309 | 15 | Tables E-1, E-2, E-3, E-4 are all incomplete. | Update tables | REJECT.Refer to Doc. 13/1118r1. |
| 932 | Zhendong Luo | E.1 | 311 | 8 | As in IEEE 802.11-2012, Table E-4 should define the common operating classes rather than those operating classes for specific regulatory regions. | Define a separate table for each group of region-specific operating classes. | REJECT.Refer to Doc. 13/1118r1. |
| <Discussion>IssueCountry code is needed to calculate channel center frequencies when we follow the current Annex E.But delivering a country code from an AP to non-AP STAs may not be mandated in TGah because TGah has not discussed and reached a consensus yet on which features are mandatory or not at the MAC level. Only Channel number cannot be decided without considering Operating class, Channel starting frequency because Operating class, Channel starting frequency and Operating class have a strong relationship.Proposed amendmentThe channel numbers of Table E-1, 2, 3 and 4 had better keep the current numbers until it will be decided whether the Country code is mandatory or not in the TGah, with other MAC features determined mandatory/optional. **TGah editor: modify Annex E as follows**Note – Definition of Type 1 and Type 2 channels for CCA Level Classification and required behavior is described in 24.3.19.5.3 CCA sensitivity for signals occupying the Primary 2MHz and/or Primary 1MHz channel and 24.3.19.5.3 CCA sensitivity for signals not occupying the primary 2MHz channel.

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|  | * Operating classes in the United States
 |
| Operating class | Global operating class (see E-4) | Channel starting frequency (GHz) | Channel spacing (MHz) | Channel set | Channel center frequency index | CCA Level Classification | Behavior limits set |
| <ANA> | <ANA> | 0.902 | 1 | - | 1,3,37,39,41,43,45,47,49,51 | Type 1 | TBD |
| 5,7,9,11,13, 15,17,19,21,23,25,27,29,31,33,35 | Type 2 |
| <ANA+1> | <ANA+1> | 0.902 | 2 | - | 2,38,42, 46,50 | Type 1 | TBD |
| 6,10,14,18,22,26,30,34 | Type 2 |
| <ANA+2> | <ANA+2> | 0.902 | 4 | - | 40,48 | Type 1 | TBD |
| 8,16,24,32 | Type 2 |
| <ANA+3> | <ANA+3> | 0.902 | 8 | - | 44 | Type 1 | TBD |
| 12, 28 | Type 2 |
| <ANA+4> | <ANA+4> | 0.902 | 16 | - | 20 | Type 2 | TBD |

Insert the rows below for Operating classes <ANA> through <ANA+1>:

|  |  |
| --- | --- |
|  | * Operating classes in Europe
 |
| Operating class | Global operating class (see E-4) | Channel starting frequency (GHz) | Channel spacing (MHz) | Channel set | Channel center frequency index | CCA Level Classification | Behavior limits set |
| <ANA> | <ANA> | 0.863 | 1 | - | 1,3,5,7,9 | Type 1 | TBD |
| <ANA+1> | <ANA+1> | 0.863 | 2 | - | 2,6 | Type 1 | TBD |

***Insert the rows below for Operating classes <ANA> :***

|  |  |
| --- | --- |
|  | * Operating classes in Japan
 |
| Operating class | Global operating class (see E-4) | Channel starting frequency (GHz) | Channel spacing (MHz) | Channel set | Channel center frequency index | CCA Level Classification | Behavior limits set |
| <ANA> | <ANA> | 0.9165 | 1 | - | 1,3,5,7,9,11,13,15,17,19,21 | Type 1 | TBD |

Insert the rows below for Operating classes <ANA> through <ANA+9>:

|  |  |
| --- | --- |
|  | * Global operating classes
 |
| Operating class | Nonglobal operating class(es) | Channel starting frequency (GHz) | Channel spacing (MHz) | Channel set | Channel center frequency index | CCA Level Classification | Behavior limits set |
| <ANA> | <ANA> | 0.755 | 1 | - | 1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47 | Type 1 | TBD (for China) |
| 49,51,53, 55,57,59, 61,63 | Type 2 |
| <ANA+1> | <ANA+1> | 0.755 | 2 | - | 50,54,58,62 | Type 2 | TBD (for China) |
| <ANA+2> | <ANA+2> | 0.755 | 4 | - | 52,60 | Type 2 | TBD (for China) |
| <ANA+3> | <ANA+3> | 0.755 | 8 | - | 56 | Type 2 | TBD (for China) |
| <ANA+4> | <ANA+4> | 0.9175 | 1 | - | 1,3,5,7,9,11 | Type 1 | TBD (for Korea) |
| <ANA+5> | <ANA+5> | 0.9175 | 2 | - | 2,6,10 | Type 1 | TBD (for Korea) |
| <ANA+6> | <ANA+6> | 0.9175 | 4 | - | 8 | Type 1 | TBD (for Korea) |
| <ANA+7> | <ANA+7> | 0.866 | 1 | - | 1,3,5 | Type 1 | TBD (for Singapore) |
| <ANA+8> | <ANA+8> | 0.920 | 1 | - | 1,3,5,7,9 | Type 1 | TBD (for Singapore) |
| <ANA+9> | <ANA+9> | 0.866 | 2 | - | 4 | Type 1 | TBD (for Singapore) |
| <ANA+10> | <ANA+10> | 0.920 | 2 | - | 2,6 | Type 1 | TBD (for Singapore) |
| <ANA+11> | <ANA+11> | 0.920 | 4 | - | 4 | Type 1 | TBD (for Singapore) |

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