IEEE P802.11  
Wireless LANs

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| TGah D0.1 Comment Collections 9 Resolutions on 24.3.17 Sections | | | | |
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Abstract: This document contains proposed resolutions for the following CIDs from TGah D0.1 Comment Collection 9:

* Clause 24.3.17 S1G Transmit Specification CIDs: 302, 801, 802, 803, 804, 805, 806, 566

##### CIDs for Clause 24.3.17

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| CID | Commenter | Section | Page | Line | Comment | Proposed Change | Resolution |
| 302 | Li Chia Choo | 24.3.17.2 | 278 | 55 | Unknown table reference in the description for 24.3.17.2 Spectral flatness | Change line 55 to: "deviation in Table 24-30 from the average of..." | Accepted |
| 801 | Shusaku Shimada | 24.3.17.1 | 275 | 31 | Spurious region spectrum mask of 1MHz channel has to conform with general international limit or may be as same as 11af mask. | Change "40dBm/MHz" to "-45dBm/MHz", or otherwise at least as same as 11af,i.e. (+16-59)dBm/MHz. | Rejected, until further discussion on whether its necessary to conform to 11af mask |
| 802 | Shusaku Shimada | 24.3.17.1 | 276 | 4 | Spurious region spectrum mask of 2MHz channel has to conform with general international limit or may be as same as 11af mask. | Change "43dBm/MHz" to "-48dBm/MHz", or otherwise at least as same as 11af,i.e. (+13-59)dBm/MHz. | Rejected, until further discussion on whether its necessary to conform to 11af mask |
| 803 | Shusaku Shimada | 24.3.17.1 | 276 | 40 | Spurious region spectrum mask of 4MHz channel has to conform with general international limit or may be as same as 11af mask. | Change "46dBm/MHz" to "-51dBm/MHz", or otherwise at least as same as 11af,i.e. (+10-59)dBm/MHz. | Rejected, until further discussion on whether its necessary to conform to 11af mask |
| 804 | Shusaku Shimada | 24.3.17.1 | 277 | 33 | Spurious region spectrum mask of 8MHz channel has to conform with general international limit or may be as same as 11af mask. | Change "49dBm/MHz" to "-54dBm/MHz", or otherwise at least as same as 11af,i.e. (+7-59)dBm/MHz. | Rejected, until further discussion on whether its necessary to conform to 11af mask |
| 805 | Shusaku Shimada | 24.3.17.1 | 278 | 7 | Spurious region spectrum mask of 16MHz channel has to conform with general international limit or may be as same as 11af mask. | Change "52dBm/MHz" to "-57dBm/MHz", or otherwise at least as same as 11af,i.e. (+4-59)dBm/MHz. | Rejected, until further discussion on whether its necessary to conform to 11af mask |
| 806 | Shusaku Shimada | 24.4.3 | 298 | 48 | The value of TXTIME calculation result to be returned has to be accumulated in summation, which has to be used for possible regulatory requirement, e.g. TX time and duty ratio control rulrs. | Introduce an accumulated TXTIME service in PLME interface. | Rejected, please specify what the problem is with current equations |
| 566 | Mitsuru Iwaoka | 24.3.17 | 283 | 25 | It is better to specify the Time of Departure accuracy in 24.3.17. | Insert subclause 24.3.17.5 Time of Departure accuracy as following. The Time of Departure accuracy test evaluates TIME\_OF\_DEPARTURE against aTxPHYTxStartRMS and aTxPHYTxStartRMS against TIME\_OF\_DEPARTURE\_ACCURACY\_TEST\_THRESH as defined in Annex T with the following test parameters:  -- MULTICHANNEL\_SAMPLING\_RATE is: 1e6├ù(1+[(fH - fL)/1 MHz]) sample/s, for a CH\_BANDWIDTH parameter equal to CBW1 2e6├ù(1+[(fH - fL)/2 MHz]) sample/s, for a CH\_BANDWIDTH parameter equal to CBW2 4e6├ù(1+[(fH - fL)/4 MHz]) sample/s, for a CH\_BANDWIDTH parameter equal to CBW4 8e6├ù(1+[(fH - fL)/8 MHz]) sample/s, for a CH\_BANDWIDTH parameter equal to CBW8 16e6├ù(1+[(fH - fL)/16 MHz]) sample/s, for a CH\_BANDWIDTH parameter equal to CBW16 where fH is the nominal center frequency in Hz of the highest channel in the channel set fL is the nominal center frequency in Hz of the lowest channel in the channel set, the channel set is the set of channels upon which frames providing measurements are transmitted. [x] equals the smallest integer equal to or larger than x. -- FIRST\_TRANSITION\_FIELD is STF. -- SECOND\_TRANSITION\_FIELD is LTF1. -- TRAINING\_FIELD is LTF1 windowed in a manner which should approximate the windowing described in 18.3.2.5 (Mathematical conventions in the signal descriptions) with TTR = 1000 ns. -- TIME\_OF\_DEPARTURE\_ACCURACY\_TEST\_THRESH is 800 ns. NOTE The indicated windowing applies to the time of departure accuracy test equipment, and not the transmitter or receiver. | Rejected, not clear why this criteria is needed, since 11n/11ac did not have such a test. |

*TGah Editor: Please make the following changes on Page 278 for clause 24.3.17.2, changes highlighted in yellow:*

* Spectral flatness

Spectral flatness measurements shall be conducted using BPSK modulated PPDUs.

Let  denote the average constellation energy of a BPSK modulated subcarrier *i* in a S1G data symbol.

In a normal mode S1G transmission or contiguous 1MHz or 2MHz Duplicate mode transmission having a bandwidth listed in Table 24-30 (Maximum Spectral Flatness Deviations),  of each of the subcarriers with indices listed as tested subcarrier indices shall not deviate by more than the specified maximum deviation in Table 24-30 - Maximum Spectral Flatness Deviations from the average of  over subcarrier indices listed as averaging subcarrier indices. Averaging of  is done in the linear domain.

For the spectral flatness test, the transmitting STA shall be configured to use a spatial mapping matrix  with flat frequency response. Each output port under test of the transmitting STA shall be connected through a cable to one input port of the testing instrumentation. The requirements apply to 1 MHz, 2 MHz, 4 MHz, 8 MHz and 16 MHz normal mode transmissions and transmissions based on 1 and 2 MHz duplicated segments.