IEEE P802.11
Wireless LANs

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| WSM words about mutiple channels and power levels, LB 192 CID 2035 |
| Date: 2013-03-19 |
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Abstract

CID 2010 questions style of words about the power limit for TVWS transmission on multiple channels. We attempt to address the substance.

# Relevant comment

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| **CID** | **Page** | **Clause** | **Comment** | **Proposed change** | **Resolution** |
| 2035 | 104.56 (is actually 78.56) | 10.43.9 | “When the operational channel bandwidth (WLAN channel) spans multiple channels indicated in the WSM, with maximum power levels that are different, the operational transmission power level is constrained by the minimum transmission power level of those multiple channels, that are indicated in the WSM." This is clumsy suggest re-writing | Edut to read: "When, as indicated in the WSM, the operational channel bandwidth (WLAN channel) spans multiple channels that include channels with differing maximum power levels, the operational transmission power level shall be constrained to that of the channel with the least transmission power level." | Revised. Delete the sentence in question so that only annex E will be used to describe operational limits in regulatory domains |

# Discussion

The intention of the WSM is to convey the information received from the controlling database. We agree that the words are not sufficiently precise, in that they do not point out that different regulatory domains have different rules and that different databases convey different information.

As an example reflecting the regulatory environment, and indicating the origin of the limit expressed in the words, we have the Draft Voluntary National Standard from Ofcom(this is the closest to a formal rule for channel access in Europe; ETSI BRAN is reflecting this rule), where it says:

5.32 For a WSD which transmits simultaneously over multiple (contiguous, non-contiguous, or a mixture of contiguous and non-contiguous) DTT channels, the following requirements apply:

5.32.1 The in-block EIRP spectral density in each DTT channel shall not exceed the limit, P0 dBm/(0.1 MHz), as specified by the WSDB for that channel;

5.32.2 The total in-block EIRP (measured over the total nominal channel bandwidth) shall not exceed the lowest of the limits, P1 dBm/(8 MHz), as specified by the WSDB for each of the DTT channels in which the WSD transmits.

# Proposed Resolution

Revised. Delete the sentence in question so that only annex E will be used to describe operational limits in regulatory domains.

# Remedy

***TGaf Editor delete the sentence in para page 78 lines 55 to 60 as follows:***

A WSM element includes a list of identified available channels and corresponding maximum allowed trans­mission powers for each available channel. ~~When the operational channel bandwidth (WLAN channel) spans multiple channels indicated in the WSM, with maximum power levels that are different, the opera­tional transmission power level is constrained by the minimum transmission power level of those multiple channels, that are indicated in the WSM.~~

**References:**

* **Draft EN** **301 598 V****<0.0.16> (****<2013-03>). ETSI BRAN. Accessible through IEEE 802.11 members area**
* [**http://stakeholders.ofcom.org.uk/binaries/consultations/whitespaces/annexes/draft-VNS.pdf**](http://stakeholders.ofcom.org.uk/binaries/consultations/whitespaces/annexes/draft-VNS.pdf)