IEEE P802.11
Wireless LANs

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| LB195 D4.0 comment resolution (Misc PHY comments) |
| Date: 2013-05-13 |
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Abstract

This document contains proposed resolution of some miscellaneous PHY comments in LB195 of P802.11af D4.0. Proposed resolutions are based on 802.11af draft text D4.0.

This submission provides resolution to comments 3005, 3006, and 3009.

**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 TGaf Draft. This introduction is not part of the adopted material.

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

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

***Submission Note: Notes to the reader of this submission are not part of the motion to adopt. These notes are there to clarify or provide context.***

| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Proposed Resolution** |
| --- | --- | --- | --- | --- | --- |
| 3005 | 49.49 | 8.4.2.164 | "the Local Maximum Transmit Power for 20 MHz fields indicates the Local Maximum Transmit Power for TVHT\_W bandwidth" is confusing. | change to "the Local Maximum Transmit Power for W bandwidth fields indicates the Local Maximum Transmit Power for TVHT\_W bandwidth" and redefine 20MHz, 40MHz, 80MHz, 160MHz as W, 2W, 4W, 8W. W in different band has different value. | REVISED.The text is clear. We recommend the reviewer to propose a complete paragraph that can be considered by the task group. Minor editorial changes to the paragraph are done as given in editing instruction section. |
| 3006 | 53.39 | 8.4.2.170 | 11n and 11ac provide better spatial reuse by restricting Basic MCS Set of a BSS. This feature is missing in 11af. | Evaluate the feature to decide whether 11af need it. | REVISED.Editorial changes are given in the editing instructions to clarify that old “VHT Basic MCS Set” contains the MCSs for each NSS. The comment might be referring to another section as there is no text in 8.4.2.170 in Draft 5.0 of 11ac related to restricting basic MCS set. |
| 3009 | 68.27 | 10.42 | Where is OperationalVHTMCS\_NSSSet defined? To me only peer STA's MCS capabilities, BSS's Bacsic MCS Set, madatory MCS Set are defined. | Clarify it. | REVISED.The parameter OperationalVHTMCS\_NSSSet is defined in TGac draft (section 6.3.4.2.2)The text needs to be updated to align with TGac draft 5.0 as shown in editing instructions section. |

# Editing instructions:

***TGaf editor: Change the paragraph in 8.4.2.164 as shown below***

For TVHT STA, the Local Maximum Transmit Power for 20 MHz field~~s~~ indicates the Local Maximum Transmit Power for TVHT\_W bandwidth; the local Maximum Transmit Power for 40 MHz field~~s~~ indicates the Local Maximum Transmit Power for TVHT\_2W or TVHT\_W+W bandwidth; the local Maximum Transmit Power for 80 MHz field~~s~~ indicates the Local Maximum Transmit Power for TVHT\_4W or TVHT\_2W+2W bandwidth; the local Maximum Transmit Power for 160/80+80 MHz fields is not included in the VHT Transmit Power Envelope element.

***TGaf editor: Change Figure 8-401ch as shown below***

|  |  |  |  |
| --- | --- | --- | --- |
| Element ID | Length | TVHT Operation Information | ~~VHT Basic MCS Set~~ Basic TVHT-MCS and NSS Set |

***TGaf editor: Change the last paragraph of 8.4.2.170 as shown below***

The ~~VHT Basic MCS Set~~ Basic VHT-MCS and NSS Set field indicates the VHT-MCSs for each ~~number of~~ spatial streams in VHT PPDU in TVWS bands that are supported by all TVHT STAs in the BSS (including IBSS). The ~~VHT Basic MCS Set~~ Basic VHT-MCS and NSS Set field is a bitmap of size 16 bits; B8-B9, B10-B11, B12-B13, and B14-B15 are set to 3. For B0-B7, each 2 bits indicates the supported MCS set for *N*SS from 1 to 4. The ~~VHT Basic MCS Set~~ Basic VHT-MCS and NSS Set field is defined as B0-B7 of Rx MCS Map subfield in 8.4.2.160.3 (Supported VHT-MCS and NSS Set field).

***TGaf editor: Change the first paragraph of 10.42 Basic TVHT BSS functionality as shown below***

The STA that is creating the BSS shall be able to receive and transmit at each of the <VHT-MCS, NSS> tuple values indicated by the BSSBasicVHTMCS\_NSSSet and shall be able to receive at each of the <VHT-MCS, NSS> tuple values indicated by the OperationalVHTMCS\_NSSSet.