IEEE P802.11
Wireless LANs

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| Comment Resolutions for Clause 8.4 |
| Date: 2014-12-02 |
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Abstract

This submission proposes comment resolutions for subclauses 8.4:

5271, 5451, 5202, and 5274.

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

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

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

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| **CID** | **Clause Num** | **P** | **L** | **Comment** | **Propose Change** | **Resolution** |
| 5271 | 8.4.2.170w | 179 | 4 | In S1G there are two types of STAs: sensor STAs and non-sensor STAs. Hence "sensor only STAs" should be "sensor STAs". | As in comment. Apply the same change in P361L20. | Accept |
| 5451 | 8.4.2.170w | 178 | 21 | The fragment "indicate MCS10 is permitted but not recommended." is ambiguous as to what entity controls this permission. | Replace "indicate MCS10 is permitted but not recommended." with "indicate that the AP is permitting but not recommending MCS10." | RejectDiscussion: all the fields in S1G Operation element imply that the AP controls them. |

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| **CID** | **Clause Num** | **P** | **L** | **Comment** | **Propose Change** | **Resolution** |
| 5202 | 8.6.23.4 | 186 | 52 | "When present in an Operating Mode Notification frame, the Multi-band element indicates the frequency band, operating class, and channel number to which the Operating Mode Notification frame applies and contains band-specific information."This is not enough for band/channel switch. The notification of multi band capability is through include Multi-band element in several management request /response frames. However the band/channel change is through FST procedure. Operation Mode Notification is not enough for the switch. Also the behavior subclause about Operation Mode is not updated for multiband operation.Through Probe Request/Resopnse, Association Request/Response STA and AP already know the multi band operation capability. Operation Mode Notification frame should not include Multi-band element. | Remove Multi-band from Operating Mode Notification frame and P186L51 paragraph. | RejectDiscussion: Multi-band element is used to indicate that the operating mode change is in other band. |
| 5274 | 8.6.23.4 | 186 | 21 | There is no S1G Action field value for Operating Mode Notification frame. Either use the VHT version (i.e., removing this underlined text from here and amending the Multiband addition at the end of the subclause to be applicable for S1G only) or create an Operating Mode Notification frame of type S1G Action. This latter one makes more sense given that we are talking about an S1G STA. | As in comment. | Revise,TGah editor makes changes shown in 11-14/1604r0 under the headings that includes CID 5274 |

**8.6.23 VHT Action frame details**

**8.6.23.1 VHT Action field**

***TGah editor: Change the first paragraph of subclause 8.6.23.1 as follows (5274):***

Several Action frame formats are defined to support VHT functionality and S1G functionality. A VHT Action field, in the octet

immediately after the Category field, differentiates the VHT Action frame formats. The VHT Action field

values associated with each frame format within the VHT category are defined in Table 8-403 (VHT Action

field values).

**8.6.23.4 Operating Mode Notification frame format**

***TGah editor: Change this subclause as follows (5274):***

The Operating Mode Notification frame is an Action frame of category VHT. It is used to notify STAs that the transmitting STA is changing its operating channel width, the maximum number of spatial streams it can receive, or both.

The Action field of the Operating Mode Notification frame contains the information shown in Table 8-406 (Operating Mode Notification frame Action field format).

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| * Operating Mode Notification frame Action field format
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| **Order** | **Information** |
| 1 | Category |
| 2 | VHT Action |
| 3 | Operating Mode (see 8.4.1.52 (Operating Mode field)) |
| 4 | Multi-band (optional) |

The Category field is set to the value for VHT, specified in Table 8-54 (Category values).

The VHT Action field is set to the value for Operating Mode Notification, specified in Table 8-403 (VHT Action field values).

When present in an Operating Mode Notification frame, the Multi-band element indicates the frequency band, operating class, and channel number to which the Operating Mode Notification frame applies and contains band-specific information.

10.42 Notification of operating mode change

***TGah editor: Insert the following text after the 10th paragraph of this subclause as follows (5274):***

An S1G AP should notify associated STAs of a change in its operating channel width through one or more of the following mechanisms:

—Using the Extended Channel Switch Announcement element, Extended Channel Switch Announce­ment frame or both, following the procedure described in 10.10 (Extended channel switching (ECS))

—Using individually addressed Operating Mode Notification frames

—Using the Channel Width subfield in the S1G Operation element.