IEEE P802.11
Wireless LANs

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| Comment Resolutions for Clause 8.3 |
| Date: 2014-12-02 |
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Abstract

This submission proposes comment resolutions for subclauses under 8.3:

5245, 5444, 5064, 5065, 5162, 5436, 5066, 5128, 5246, 5067, 5068, 5140, and 5247.

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** |
| 5245 | 8.3.1.1 | 86 | 14 | "when" is missing. Insert "when" between "frames" and "Subtype" in the figure's caption. | As in comment. | Accept |

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| **CID** | **Clause Num** | **P** | **L** | **Comment** | **Propose Change** | **Resolution** |
| 5444 | 8.3.1.20 | 87 | 20 | The CRC resolution of CID3489 claimed that 8.3.1.20 defines "S1G NDP Announcement frame". In fact 8.3.1.20 does not do that. Instead 8.3.1.20 in D3.0 gives editorial instructions for writing a definition, but does not actually include the required definition. Such editorial instructions should never exist in an IEEE standard. | Replace the editorial instructions in this proposed text with the appropriate definitions. | ReviseDiscussion: generally agree with the comment.TGah editor makes changes shown in 11-14/1603r3 under the headings that includes CID 5444 |

**8.3.1.20 VHT NDP Announcement frame format**

***TGah Editor: Insert the following paragraph and Figure 8-50a at the end of the subclause 8.3.1.20 (5444):***

When an S1G STA transmits the NDP Announcement frame, the format of the STA Info field is shown in Figure 8-50a (STA Info field when used in S1G band), but with the following exception:

—In Table 8-33 (STA Info subfields), Nc index field does not indicate a value that is more than 4. The "AID 12" field is changed to "AID 13" with the following description: Contains the 13 least significant bits of the AID of a STA expected to process the following S1G NDP and prepare the sounding feedback. Equal to 0 if the STA is an AP or is in an IBSS.

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|  | B0 B12 | B13 | B14 B15 |
|  | AID13 | Feedback Type | Nc Index |
| Bits:  | 13 | 1 | 2 |
| * STA Info field when used in S1G band
 |

**9.34 Null data packet (NDP) sounding**

**9.34.5 VHT sounding protocol**

**9.34.5.1 General**

***TGah editor: Insert the following paragraphs at the end of the subclause (5444)*:**

For an S1G STA, the same sounding protocol specified in 9.34.5 (VHT sounding protocol) is applied with “VHT” is replaced by “S1G” excluding in following terms:

 —VHT NDP Announcement frame

—VHT Compressed Beamforming Report field

—VHT MIMO Control field

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| **CID** | **Clause Num** | **P** | **L** | **Comment** | **Propose Change** | **Resolution** |
| 5064 | 8.3.2.1 | 88 | 63 | Note 1 does not specify the value of the Address 1 field if an individually addressed A-MSDU frame is used in DMS and relay. | Specify what is contained in the Address 1 field if an individually addressed A-MSDU frame is used in DMS and relay | RejectDiscussion: It is the receiver’s MAC address which his always true.  |
| 5065 | 8.3.2.1 | 89 | 28 | Note 2 does not specify the value of the Address 2 field if an individually addressed A-MSDU frame is used in DMS and relay. | Specify what is contained in the Address 2 field if an individually addressed A-MSDU frame is used in DMS and relay | Reject.Discussion: It is the transmitter’s MAC address which is always true. |
| 5161 | 8.3.2.1 | 89 | 1 | A3 can be both SA and DA here. However in other places, the assumption is A3 is only DA and A4 is only SA. | Harmonize the DA/SA definition. | Revise.Discussion: The other place that uses A3 is dynamic A-MSDU.Since dynamic A-MSDU always use BSSID as A3 per CID 5224’s resolution in 11-14/1470r0. There is no ambiguity. See CID 5224 |
| 5436 | 8.3.2.1 | 89 | 1 | Confliction: It is assumed that Address 3 is only for DA, but here Address can be both SA and DA. | Need to harmonize the definitions of DA and SA. | Revise.Discussion: The other place that uses A3 is dynamic A-MSDU.Since dynamic A-MSDU always use BSSID as A3 per CID 5224’s resolution in 11-14/1470r0. There is no ambiguity. See CID 5224 |

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| 5066 | 8.3.2.2.4 | 90 | 5 | "each A-MSDU subframe (except the last) is padded, so that its length is a multiple of 4 octets." -- why are not all frames treated equally? Given that length informaiton is included per frame, no frame requires the padding. If the padding is important for optimizaiton / implementation issues, why is the last one not padded as well. Note: also effects 91.7 | Remove the padding. | RejectDiscussion: A-MSDU subframe padding except last subframe is deined in 11mc. The commenter should raise this issue to 11mc.  |
| 5128 | 8.3.2.2.4 | 106 | 38 | The subframe control could be simplified: it only needs DA present and SA present fields. There is no need for Length field since DA and SA length are fixed if included. Therefore the subframe control field could be reduced to 1 octet instead of 2. | remove Length field in the subframe control. | Reject.Discussion: The length field indicates the length of the following subframe and not the length of SA and DA. So it can’t be removed. |

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| **CID** | **Clause Num** | **P** | **L** | **Comment** | **Propose Change** | **Resolution** |
| 5246 | 8.3.3.1 | 91 | 25 | Duplicated "Table Table". Remove one of them. | As in comment. | Accept  |

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| **CID** | **Clause Num** | **P** | **L** | **Comment** | **Propose Change** | **Resolution** |
| 5067 | 8.3.3.5 | 91 | 43 | The presence of fields is not specified if the MIB variable in the Notes is equal to false. Note: same applies to Table 8-38 at 92.25 and 92.51 and 93.41 and all the other Cls. 8 tables. Note that ocassionally, you specify that the field is not present if dot11xxxx is false (the otherwise case). So obviously, it seems to be important to have a full specification of when the fiel is or is not present. | Add "ohterwise it is not present" at the end of the Notes for the elements having the following order number: 24, 25, 27, 28, 29, 30, and 33 | Reject.Discussion: The style of “the xxxx element is repset if dot11yyyy is true” is widely used in 11mc. |
| 5068 | 8.3.3.5 | 91 | 43 | May the MAD and the Reachable Address field be always optionally present (i.e. regardless of a STA being a S1G or non-S1G STA)? Note -- effects other frame fields as well. If you accept the proposed change, you will have to do the change in several places (search for Reachable Address field in Cls. 8 tables) | State that the fields are always optionally present or add a MIB variable condition specifying when they are optionally present and when not. | ReviseDiscussion: MAD is only used by S1G STA. Reachable Address is used when Relay is supported.TGah editor: Add “if dot11S1GOptionImplemented is true” to the end of note for MAD in all tables in clause 8.3.3.TGah editor: Add “if dot11RelaySTACapable is true” to the end of note for Reachable Address in all tables in clause 8.3.3. |

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| **CID** | **Clause Num** | **P** | **L** | **Comment** | **Propose Change** | **Resolution** |
| 5140 | 8.3.3.6 | 93 | 4 | I compared the tables such as 8-38, 8-39, 8-40 with the ones in REVmc D3.0 and the in REVmc they don't hyphenate the MIB variable names. I find the hyphens confusing as it alters the term, and also can make keyword searching break. | Change word processing program to place full word on new line instead of hyphenating in the middle of long words - especially MIB variable names. | ReviseTGah editor removes hyphens from MIB variable names through 11ah draft. |
| 5247 | 8.3.3.6 | 93 | 28 | The Order value for Relay Activation element should be 41 not 44. And separate "ifdot11RelaySTACapable". This last issue can be found in P95L25, P95L62, and P97L77 as well. | Replace "44" with "41" and replace "ifdot11RelaySTACapable" with "if dot11RelaySTACapable". Apply the last instruction to P95L25, P95L62, and P97L77 as well. | ReviseTGah editor replaces "ifdot11RelaySTACapable" with "if dot11RelaySTACapable" in P93L28. TGah editor replaces "ifdot11RelaySTACapable" with "if dot11RelaySTACapable" in P95L25, P95L62 and P97L10. |