IEEE P802.11
Wireless LANs

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| LB 203 Comment Resolution for Miscellaneous part 1 |
| Date: 2014-08-09 |
| Author(s): |
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Abstract

This submission proposes resolutions for comments in different subclauses of TGah Draft 2.0 with the following CIDs (TOT 7 CIDs):

* 3332, 3337, 3943, 4185, 3550, 3696, 3114

Revisions:

* Rev 0: Initial version of the document

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** | **Commenter** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 3332 | Alfred Asterjadhi | 264.32 | 9.23.1 | There seems to be a lot of reduncancy in this paragraph because the same descriptions can be found in the respective subclauses below for the originator and receiving STA. Check if some redundancy can be avoided by referring to the respective subclauses that follow (e.g., 9.23.2). | As in comment. | Revised –Agree in principle with the commenter. Proposed resolution accounts for the suggested change. TGah editor to make the changes shown in 11-14/1067r0 under all headings that include CID 3332. |

Discussion: *None*

* Introduction

**TGah Editor: *Change the paragraph below as follows (#3332):***

An S1G non-AP STA may negotiate an asymmetric block ack operation with an S1G AP as described in 9.24.2 (Setup and modification of the block ack parameters). A non-S1G STA shall not transmit NDP BlockAck frames and shall not initiate an asymmetric block ack operation. An S1G AP with dot11AsymmetricBlockAckSupport equal to false shall not support asymmetric block ack operation. Under asymmetric block ack operation, the responding S1G STA may use a lower MCS for transmitting the immediate BlockAck frame as described in 9.7.6.5.2 (Selection of a rate or MCS) The intended recipient STA maintains a measure of the degree of asymmetry between the AP and the STA and implicitly indicates the value to the originator AP during the block ack setup phase. This degree of asymmetry is represented as the difference in MCS values between AP and STA, and referred to as MCSDifference (see 9.24.2 (Setup and modification of the block ack parameters)). After an asymmetric block ack agreement is established, the originator AP uses the MCSDifference to calculate the Duration field of PV0 frames carried in the A-MPDU that elicits the BlockAck frame.

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| **CID** | **Commenter** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 3337 | Alfred Asterjadhi | 232.30 | 9.3.2.10a | "Fragment MPDU (F-MPDU)". Use lower case when not part of a field. Also note that it can also be a VHT single MPDU (or S-MPDU if the new terminology is adopted see my other comment). | As in comment. | Revised –Agree in principle with the commenter. Proposed resolution accounts for the suggested change. TGah editor to make the changes shown in 11-14/1067r0 under all headings that include CID 3337. |

Discussion: *None*

* Fragment BA procedure

**TGah Editor: *Change the paragraph below as follows (#3337):***

An S1G STA can partition an MSDU or an MMPDU into multiple fragments as described in 9.5 (Fragmentation) and send the frames containing the fragments of the MSDU or of the MMPDU as independent transmissions. In this subclause a fragment MPDU (F-MPDU) is an MPDU or a VHT single MPDU that contains a fragment of an MSDU or of an MMPDU.

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| **CID** | **Commenter** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 3943 | Mitsuru Iwaoka | 223.55 | 9.3.2.3.4 | "An S1G STA may support PSMP while Annex.B (PICS proforma) allows it. So, use of PIFS in PSMP sequence needs to be specified.\* This comments relates to another comments to subclause 9.28." | Replace "HT AP" by "HT AP or S1G AP" in the 10th bullet of the 2nd paragraph. | Revised –The CRC group believes that PSMP is not useful in 11ah as RAW operation can provide a similar functionality as PSMP. Proposed resolution is to specify that S1G STAs do not use PSMP.TGah editor to make the changes shown in 11-14/1067r0 under all headings that include CID 3337. |

Discussion: *None*

**9.29 PSMP Operation**

**9.29.1 General**

**TGah Editor: *Change the sentence below as follows (#3943):***

A DMG STA and an S1G STA shall not use PSMP.

**9.7.5.1 Rate selection for non-STBC Beacon and non-STBC PSMP frames**

**TGah Editor: *Change the paragraph below as follows (#3943):***

For an S1G STA, non-STBC S1G Beacon frames shall be transmitted in an S1G 1 MHz PPDU, an S1G 2 MHz PPDU with short preamble, an S1G 1 MHz Duplicated PPDU or an S1G 2 MHz Duplicated PPDU with short preamble using one of the mandatory PHY rates.

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| **CID** | **Commenter** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 4185 | James Lepp | 277.49 | 9.42.6 | "A non-S1G STA shall not transmit NDP Paging frames." If this paging method is useful, why restrict it to Sub-1GHz STAs? | Create NDP paging as a backwards compatible power saving mechanism for all bands. Power saving techniques aren't band specific. | Rejected –The comment fails to identify a technical issue and is out of the scope of the TGah. In response to the comment: NDP Paging procedure uses NDP Paging frame that is an NDP CMAC frame, i..e., an NDP PPDU that carries MAC signalling in the SIG field. These frames are not defined for non-S1G STAs.Please submit the comment to REVmc if necessary to un-restrict the method from S1G.  |
| 3550 | Graham Smith | 277.37 | 9.42.6 | I really like the Paging idea. I am wondering if we could also make a version of it that could be used with non-S1G STAs. I realize we would need to replace the NDP Page with a packet that used standard addresses, but the other than that , it could work. I would welcome help on putting forward text to allow this. | I would welcome help in proposing Paging for non S1G STAs (in addition to using TWT with non S1G STAs) | Rejected –The comment fails to identify a technical issue and is out of the scope of the TGah. In response to the comment: Please submit the comment to REVmc if necessary to un-restrict the method from S1G. |

Discussion: *None*

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| **CID** | **Commenter** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 3696 | Liwen Chu | 79.25 | 8.2.5.2 | In a TXOP with Duration protection with short frame or NDP BA, multiple protection shall be used. | As proposed | Revised –Both Short frames and NDP BA frames do not contain a Duration field which this Subclause 8.2.5.2 relates to. The issue pointed out by the commenter exists when more than one short frames are transmitted SIFS-separated. The proposed change is to clarify that when a protection mechanism is used to protect this SIFS-separated transmissions then multiple protection settings apply for the Duration field of the frames used to provide protection.TGah editor to make the changes shown in 11-14/1067r0 under all headings that include CID 3696. |

Discussion: *None*

**TGah Editor: *Change the paragraph below as follows (#3696):***

An S1G STA that intends to transmit more than one SIFS-separated Short frames for which it does not follow the BDT rules defined in 9.45 (Bi directional TXOP) should protect the sequence with a protective mechanism that uses multiple protection as described in 8.2.5.2(Setting for single and multiple protection under enhanced distributed channel access (EDCA)).

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| **CID** | **Commenter** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 3114 | Ahmadreza Hedayat | 77.17 | 8.2 | Considering inclusion of S1G in this table, the second column (Meaning) is not "Bandwidth of the recom- mended VHT-MCS" only and should reflect S1G as well. | As in comment. | Revised –Agree with the commenter.TGah editor to make the changes shown in 11-14/1067r0 under all headings that include CID 3114. |

Discussion: *None*

**TGah Editor: *Change the table below as follows (#3114):***

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| **Table 8-18—MFB subfield in the VHT variant HT Control field** |
| **Subfield** | **Meaning** | **Definition** |
| BW | Bandwidth of the recommended VHT-MCS or S1G-MCS | If the Unsolicited MFB subfield is 1, the BW subfield indicates the bandwidth for which the recommended VHT-MCS or S1G-MCS is intended, as defined in 9.31.3 (Link adaptation using the VHT variant HT Control field):For a VHT STA: Set to 0 for 20 MHzSet to 1 for 40 MHzSet to 2 for 80 MHzSet to 3 for 160 MHz and 80+80 MHz.For a TVHT STA:Set to 0 for TVHT\_WSet to 1 for TVHT\_2W and TVHT\_W+WSet to 2 for TVHT\_4W and TVHT\_2W+2WThe value 3 is reserved.For an S1G STA: Set to 0 for 1 MHzSet to 1 for 2 MHzSet to 2 for 4 MHzSet to 3 for 8 MHz.Set to 4 for 16 MHz.The values 5 to 7 are reserved. If the Unsolicited MFB subfield is 0, the BW subfield is reserved. |