IEEE P802.11
Wireless LANs

|  |
| --- |
| 11ah SB0 resolution to comments |
| Date: 2015-12-10 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Shoukang Zheng | Institute for Infocomm Research (I2R) | 1 Fusionopolis Way#21-01 ConnexisSingapore 138632 | +65 6408 2252 | skzheng@i2r.a-star.edu.sg |

Abstract

This submission proposes resolutions to the following comments for TGah 1st Sponsor Ballot (TGah Draft 5.0).

* CIDs: 8065, 8066, 8078, 8142, 8177, 8447, 8481 (7 CIDs)

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 inst ructions 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.***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **Pg. Ln** | **Comment** | **Proposed Change** | **Resolution** |
| 8065 | 87.19 | "If a calculated duration is not a multiple of 40 microseconds, thevalue inserted in the Duration field is rounded up to the next higher integer." -- incomplete. As specified, doesn't enforce n\*40 us. | Change to "... is rounded up to the next higher integer multiple of 40 us." | Revised- Change to "... is rounded up to the next higher integer so that the contained duration is a multiple of 40 us." |
| 8066 | 89.12 | "For an NDP Ack frame with the Idle Indication field equal to 0, " -- what about when the Idle Indication field is 1? | Add statement for this case too. | Revised.Agree in principle. TGah Editor: add the following statement at the end of the whole paragraph:For an NDP Ack frame with the Idle Indication field equal to 1, the Duration field is set to the value of the duration of time, in milliseconds, during which an idle period is expected from the STA that elicited the response, starting from the end of NDP Ack frame response. |
| 8078 | 106.35 | "The value represents the asymmetric BlockAck is not supported"1) the term is not defined anywhere2) lack of grammer3) I am concerned at overloading two concepts of signalling an MCS and signalling a capability. | Please add a reference to where "asymmetric BlockAck" is defined.Move the capability into one of the regular capability fields. | Revised. TGah Editor: change the text as follows:The value represents that the asymmetric BlockAck operation is not supported by either the originator or the intended recipient of the ADDBA Response that contains this value in the MCS subfield of the Originator Preferred MCS field. (See 9.24.1 for asymmetric BlockAck operation and 10.5.2.3 on how to set the MCS subfield of the Originator Preferred MCS field in the ADDBA Response.) |
| 8142 | 224.11 | "The NDP Ack frame, used to respond to all frames other than an NDP PS-Poll frame, is described in thissubclause" -- this is hopelessly over-general. It is does not respond to frames with a Block Ack agreement. It doesn't respond to DMG RTS frames. | Limit the statement to S1G frames needing an immediate Ack. | Revised.Agree in principle.TGah Editor : change to "The NDP Ack frame, used to respond to an S1G frame, other than an NDP PS-Poll frame, which elicits an immediate Ack, is described in this subclause" |
| 8177 | 239.23 | "NDPTxTime plus one SIFS", well, I suppose the name of this otherwise undefined variable gives a hint as to how to calculate it. But that is not good enough in a normative statement. | Normatively define the value of this term, or reference where it is defined. Include any sources of ambiguity, such as the PHY parameters used. | Revised.Agree in principle. TGah Editor: add the reference into the text as follows:NDPTxTime (See 9.3.2.4a.2 (RID Update)) plus one SIFS  |
| 8447 | 239.46 | The two conditions for not updating NAV when receiving a S1G beacon are not clear; should both conditions be satisfied or only one should be satisfied to not update NAV? | Please clarify whether one or both conditions should be satisfied. | Revised.Agree in principle. TGah Editor : add “both of the following” behind the text of P239L46, i.e., change P239L46 as follows:S1G Beacon frame that includes at least one TIM element and at least one RPS element that indicate both of the following: |
| 8481 | 245.17 | "The Address Indicator field is equal to 1, and the Early Sector Indicator field is equal to 0, and theRA/PBSSID field is equal to the PBSSID of the AP with which the non-AP STA is associated to."The normatvie behavior of an AP sending such an NDP CTS frame is described in 9.50.4 (TXOP-based sectorization operation). | Add the missing reference at the end of the sentence: "(see 9.50.4)". | Accepted. |

***Discussion:***

**CID 8078**

Signalling MCS and signalling capability are not overloaded as the capability bit of Asymmetric Block Ack Supported has been included in the regular capability fields (See 8.4.2.197.2 or P155L7). Subclause 10.5.2.3 describes clearly the condition on setting to 15 the MCS subfield in the Originator Preferred MCS field in the ADDBA Response:

Otherwise, an ADDBA Response indicating the use of BlockAck frames. The MCS subfield in the Originator Preferred MCS field shall be set to 15 unless the dot11AsymmetricBlockAckActivated is true and the Asymmetric Block Ack Supported field in the most recently received S1G Capabilities from the S1G originator is 1 in which case the MCS subfield may indicate the value of the preferred MCS if asymmetric block ack operation is used. The preferred MCS implicitly indicates the MCSDifference value, which is the difference between the preferred MCS and the MCS at which the ADDBA Response is sent.