IEEE P802.11
Wireless LANs

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| LB 200 Comment Resolution for Clause 8.3.5.1.6 |
| Date: 2014-05-09 |
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Abstract

This submission proposes resolutions for comments in clause 8.3.5.1.6 of TGah Draft 1.0 with the following CIDs: 1078, 1378, 2111, 2112, 2293, 2294.

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** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 1078 | 60.11 | 8.3.5.1.6 | "Reserved bit" -- if you have nothing to say, say nothing | Remove cited text. | Accepted.Similar resolution in 14/210r1 has been accepted. |
| 1378 | 59.37 | 8.3.5.1.6 | It is not clear when an NDP Beamforming Report Poll is generated instead of the normal frame. its support from STAs is missing. Also, what does the NDP MAC frame type set to 5 indicate for 1Mhz? | Describe procedure for selection of NDP Beamforing report poll rather than normal one. Add in the S1G Capailities element an indication that NDP Beamforming report poll is supported and clarify indication of type 5 in the 1MHz NDP frames. | Revised.TGah editor to modify 11ah spec D1.3 as instructed in comment resolution 11-14/0574r1 |
| 2111 | 59.52 | 8.3.5.1.6 | In Table 8-52, the name for the field of 'TA (AP Address)' is not accurate | in Table 8-5 the field of 'TA (AP Address)' should be changed to 'AP Address' ,and the corresponding description should be changed to "Indicates Partial BSSID of the AP as described in 9.17b" | RevisedTGah editor to modify 11ah spec D1.3 as instructed in comment resolution 11-14/0574r1 |
| 2112 | 59.52 | 8.3.5.1.6 | the name for the field of 'RA (STA Address)' is not accurate | in Table 8-52 the field of 'RA (STA Address)' should be changed to the corresponding description should be changed to "Indicates AID of Non-AP STA" | RevisedTGah editor to modify 11ah spec D1.3 as instructed in comment resolution 11-14/0574r1 |
| 2293 | 59.52 | 8.3.5.1.6 | Why is NDP Beamforming Report Poll special in that TA is before RA? | Put TA after RA. | RevisedTGah editor to modify 11ah spec D1.3 as instructed in comment resolution 11-14/0574r1 |
| 2294 | 59.52 | 8.3.5.1.6 | There are chances that non-AP STAs send Beamforming Report Poll. Do you want disable such scenarios when NDP Beamforming Report Poll is used? | Allot it by adding Adding "From Ds bit". | RejectedThe target AP or Non-AP STA that receives this frame can identify whether the frame is from itself or to itself. Therefore there’s no need to indicate DL/UL using a special indicator. |
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**Discussion:**

Comment CID 1078/2111/2112 are more like editorial comments and are all accepted in principle. The spec text is modified accordlingly as follows.

CID 2293 was asking a question that will not exist in following modified spec text since there’s no explicit TA or RA in the NDP Beamforming Report Poll frame.

Comment CID 1378 suggested NDP Beamforming Report Poll frame as optional feature and that needs a bit in S1G capability IE to indicate. I agree with the commenter in principle on this point. Actually in 11ah D1.3, the spec text has been modified to address similar comment as a resolution proposed in 14/210r1 and accepted by the group. CID 1378 also requested to clarify indication of Type 5 in the 1MHz NDP frames. The situation is current NDP Type 5 doesn’t support transmission on 1MHz bandwidth due to S1G length limitation. Therefore the resolution is to clarify in clause 9.33.5.2 (Rules for VHT sounding protocol sequences) that NDP Beamforming Report Poll frame can only be allowed in the >=2MHz NDP frames.

Comment CID 2294 suggested using one more bit to indicate the NDP Beamforming Report Poll frame is to an AP or to a Non-AP STA. But in current design, the receiver can identify whether the frame is from itself or to itself. Therefore there’s no need to explicitly indicate DL/UL using one bit indicator.

**8.9.1.7 NDP Beamforming Report Poll**

**8.9.1.7.1 NDP\_2M Beamforming Report Poll**

***Instruction to TGah Editor: modify Figure 8-560 (NDP MAC frame body field of the NDP\_2M Beamforming Report Poll frame) in sub-clause 8.9.1.7.1 in 11ah spec draft D1.3 as following:***

 B0 B2 B3 B11 B12 B24 B25 B26 B27 B34 B35 B36

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| NDP MAC Frame Type | ~~TA (~~AP Address~~)~~ | ~~RA (~~Non-APSTA Address~~)~~ | Response Indication | Feedback Segment retransmission bitmap | Reerved |

 Bits: 3 9 13 2 8 2

**Figure 8-560 – NDP MAC frame body field of the NDP-2M Beamforming Report Poll frame**

***Instruction to TGah Editor: Modify ln25/pg175 in sub-clause 8.9.1.17.1 in 11ah spec draft D1.3 as following:***

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The ~~TA~~AP Address field indicates Partial BSSID of the AP ~~(beamformer)~~ as described in 9.19a.

The ~~RA~~Non-AP STA Address field indicates AID of the~~intended~~ STA ~~(beamformee)~~.

……

**9.33.5.2 Rules for VHT sounding protocol sequences**

**Instruction to TGah Editor: modify the last paragraph of sub-clause 9.33.5.2 (Rules for VHT sounding protocol sequences) *at ln57/pg227 in 11ah spec draft D1.3 as below:***

An S1G beamformer may transmit NDP Beamforming Report Poll frames instead of VHT Beamforming Report Poll frames to an S1G beamformee from which it has received a frame containing an S1G Capabilities element with the NDP Beamforming Report Poll Supported field equal to true; otherwise the S1G beamformer shall not transmit NDP Beamforming Report Poll frames to the S1G beamformee. A non-S1G beamformer or a S1G beamformer working on 1MHz channel shall not transmit NDP Beamforming Report Poll frames. An S1G non-AP beamformer shall not transmit NDP Beamforming Report Poll frames to a non-AP beamformee.