IEEE P802.11
Wireless LANs

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| 11ax D1.0 MAC Comment Resolution for 9.3.1.23.2/5 |
| Date: 2017-04-25 |
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Abstract

This submission proposes resolutions for the following CIDs on TGax draft 1.0:

3169, 3171, 8191, 8192, 8193, 9494

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| **CID** | **Identifiers** | **Comment** | **Proposed Change** | **Proposed Resolution** |
| 3169 | 9.3.1.23.2 P49 L33 | Missing the setting of Trigger Type. | Add: "The Trigger Type subfield is set to 1 to indicate Beamforming Report Poll variant." | Revised. Agree in principle. Make changes as outlined in <this document>. |
| 3171 | 9.3.1.23.5 P51 L20 | Missing the setting of Trigger Type. | Add: "The Trigger Type subfield is set to 4 to indicate BSRP variant." | Revised. Agree in principle. Make changes as outlined in <this document>. |
| 8191 | 9.3.1.23.5 P51 L17 | BSRP needs to be added to the abbreviations | as in comment | Revised. Agree in principle. Make changes as outlined in <this document>. |
| 8192 | 9.3.1.23.5 P51 L22 | How the Common Info field and the User Info field are relevant to Buffer Status Report Poll. I'd have expceted some parameters relevant to the BSR, e.g. AC, TID, etc. | clarify | Rejected. The non-AP STA autonomously determines the contents of the buffer status reports (BSRs). There is no need for any related information in the buffer status report poll (BSRP) frame.  |
| 8193 | 9.3.1.23.5 P51 L33 | what does "Trigger Dependnet " mean? | explain | Rejected. The Trigger Dependent Common Info subfield is an optional part of the Common Info fied, which is part of thew Trigger frame. |
| 9494 | 9.3.1.23.5 P51 L26 | "the Trigger Dependent User Info field is not present" causes degraded trigger based UL random access performance. 11ax is designed to work under high dense environment with large number of STAs which have diverse application demands. When BSRP variant Trigger frame triggers random access BSRs, the BSR from the STA with high priority AC shall not contend with low priority AC BSR. Need to reuse the AC-aware design in Basic Trigger variant. | Trigger Dependent User Info field for BSRP variant reuses Figure 9-52g--Trigger Dependent User Info field for the Basic Trigger variant. B0-B4 bits are discarded and reserved. | Rejected. Additional trigger dependent user info is not needed for requesting BSR feedback. When a more versatile response is needed, the Basic Trigger variant should be used (which has the additional user info). |

***In 3.4 (Abbreviations and acronyms), add the following acronym:***

BSRP Buffer Status Report Poll

***Modify 9.3.1.23.2 as shown in revision marks (changes relative to 802.11ax draft 1.2):***

**9.3.1.23.2 Beamforming Report Poll variant**

If the Trigger frame is a Beamforming Report Poll variant, the Trigger Dependent Common Info field is not present and the Trigger Dependent User Info field is defined in Figure 9-52h (Trigger Dependent User Info field for the Beamforming Report Poll variant).

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| --- | --- |
|  | Feedback Segment Retransmission Bitmap |
| Octets: | 1 |

**Figure 9-52h—Trigger Dependent User Info field for the Beamforming Report Poll variant**

The Feedback Segment Retransmission Bitmap subfield indicates the requested feedback segments of an HE Compressed Beamforming report. If the bit in position n (n = 0 for LSB and n = 7 for MSB) is 1, then the feedback segment with the Remaining Feedback Segments subfield in the HE MIMO Control field equal to n is requested. If the bit in position n is 0, then the feedback segment with the Remaining Feedback Segments subfield in the HE MIMO Control field equal to n is not requested.

The Trigger Type subfield is set to 1 to indicate Beamforming Report Poll variant.

***Modify 9.3.1.23.5 as shown in revision marks (changes relative to 802.11ax draft 1.2):***

**9.3.1.23.5 BSRP variant**

The Buffer Status Report Poll (BSRP) variant Trigger frame format is as defined in Figure 9-52c (Trigger frame).

The Common Info field of the BSRP variant Trigger frame is defined in Figure 9-52d (Common Info field) and the Trigger Dependent Common Info field is not present.

The User Info field of the BSRP variant Trigger frame is defined in Figure 9-52e (User Info field) and the Trigger Dependent User Info field is not present.

The Trigger Type subfield is set to 4 to indicate BSRP variant.