IEEE P802.11
Wireless LANs

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| CC50 CR for clause 37.3 |
| Date: 2025-05-10 |
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Abstract

This submission proposes resolutions of comments received from TGbn CC50 comments based on TGbn D0.1.

411 480 611 612 613 772 859 861 1681 1682 1683 2106 2107 2669 2670 2968 2969 2970 2971 2972 3164 3252 3645 3867 3868 3869 (26 CIDs)

Revisions:

Rev 0: Initial version of the document.

1. **Introduction**

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 TGbe Draft. The introduction and the explanation of the proposed changes are not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbe Draft (i.e. they are instructions to the 802.11be editor on how to merge the text with the baseline documents).***

***TGbe Editor: Editing instructions preceded by “TGbe Editor” are instructions to the TGbe editor to modify existing material in the TGbe draft. As a result of adopting the changes, the TGbe editor will execute the instructions rather than copy them to the TGbe Draft.***

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| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 411 | Shuang Fan | 37.3 | 67.32 | Add a new rule for UHR AP responds to a trigger frame with TB PPDU in the procedure of MPAC. | as in comment |  |
| 480 | Peshal Nayak | 37.3 | 67.43 | shall examine Per AID TID Info field -> shall examine the Per AID TID Info field. 'The' is missing | As in comment | Revised-Agree with the comment in principle, rephrase this sentence by combining the two parts.Apply the changes marked as #480 in this document. |
| 611 | Suhwook Kim | 37.3.1 | 68.10 | Redundant hyphen | Delete redundant hyphen | Accepted- |
| 612 | Suhwook Kim | 37.3.1 | 68.12 | Redundant hyphen | Delete redundant hyphen | Accepted- |
| 613 | Suhwook Kim | 37.3.7 | 68.13 | Redundant hyphen | Delete redundant hyphen | Accepted- |
| 772 | Seongho Byeon | 37.3.1 | 67.42 | A UHR STA that receives a Multi-STA BlockAck frame that is a response to frames requiring acknowledgment shall ... is a bit restrictive. Since an M-STA BA in UHR can include additional information needed beyond simple acknowledgment (e.g., DUO), I suggest the following change: "A UHR STA that receives a Multi-STA BlockAck frame that is a response to frames soliciting it shall ..." | As in comment. | Accepted- |
| 859 | Tomoko Adachi | 37.3.1 | 67.37 | "The UHR acknowledgment procedure builds on the features ..." It needs better wording. | Reword it to be such as "The UHR acknowledgment procedure is built on the features ..." | Rejected-The original wording is aligned with the corresponding text in the 802.be draft, the proposed change is not needed. |
| 861 | Tomoko Adachi | 37.3.1 | 68.11 | There is an extra "-" at the beginning of each items. | Delete those. | Accepted- |
| 1681 | Gaius Wee | 37.3.1 | 67.43 | Missing "the" when referring to the field | Add "the" before "Per AID TID Info field" | Accepted- |
| 1682 | Gaius Wee | 37.3.1 | 67.44 | Clarification of conditional text | The text suggests that "when non-acknowledgement context...", BOTH procedure 26.4.2 and 37.11.2 are applicable. Should there be text for when acknowledgement is carried? Or is it supposed to mean follow 26.4.2 when acknowledgement context is carried and 37.11.2 is when acknowledgement context is not carried? | Revised-The latter part mentioned in the comment is correct, add a comma before “and” to address such issue.Apply the changes marked as #1682 in this document. |
| 1683 | Gaius Wee | 37.3.1 | 68.10 | Extra dashes at the beginning of text | Remove the (short) "-" before "Replacing" in each line | Accepted- |
| 2106 | Vishnu Ratnam | 37.3.1 | 67.42 | The text reads: "A UHR STA that receives a Multi-STA BlockAck frame that is a response to frames requiring acknowledgment shall examine Per AID TID Info field received". Replace with: "A UHR STA that receives a Multi-STA BlockAck frame that is a response to frames requiring acknowledgment shall examine Per AID TID Info field(s) received" | As in comment. | Rejected-The comment failed to identify the technical issue. The proposed change in the comment is the same as the original text in the 802.11bn D0.1. |
| 2107 | Vishnu Ratnam | 37.3.1 | 68.10 | Remove the additional hyphens in these bullets | As in comment. | Accepted- |
| 2669 | Xiaofei Wang | 37.3.1 | 67.50 | "HE MU PPDU" is missing from the sentence | add "HE MU PPDU" before "HE SU PPDU". | Accepted- |
| 2670 | Xiaofei Wang | 37.3.1 | 68.10 | unnecessary hyphens | remove the hyphens | Accepted- |
| 2968 | Mark RISON | 37.3 | 67.43 | "shall examine Per AID TID Info field received in the Multi-STA BlockAck frame" -- which Per-AID TID Info field, if there is more than one? Also missing article | As it says in the comment | Revised-Agree with the comment principle.There may exist more than one Per-AID TID Info field. Rephrase this sentence by combining the two parts.Apply the changes marked as #2968 in this document. |
| 2969 | Mark RISON | 37.3 | 67.46 | "non-acknowledgement context" does not appear in Table 9-39 | As it says in the comment | Revised-The corresponding text is added to TGbn D0.2. To be aligned with that text, change "non-acknowledgement context" to "feedback context".Apply the changes marked as #2969 in this document. |
| 2970 | Mark RISON | 37.3 | 67.48 | "A UHR STA that responds to a UHR MU PPDU with a UHR TB PPDU follows the same rules as an HE STA that responds to an HE SU PPDU or HE ER SU PPDU with a TB PPDU as defined in 26.4.4.4 (Responding to an HE MU PPDU, HE SU PPDU, or HE ER SU PPDU with an HE TB PPDU)" -- parenthesis does not match text | Change to "A UHR STA that responds to a UHR MU PPDU with a UHR TB PPDU follows the same rules as an HE STA that responds to an HE MU PPDU, HE SU PPDU or HE ER SU PPDU with a TB PPDU as defined in 26.4.4.4 (Responding to an HE MU PPDU, HE SU PPDU, or HE ER SU PPDU with an HE TB PPDU)" | Accepted- |
| 2971 | Mark RISON | 37.3 | 68.06 | " with a PPDU other than UHR MU PPDU" missing article | As it says in the comment | Revised-Agree with the comment, the amissing article is addedApply the changes marked as #2971 in this document. |
| 2972 | Mark RISON | 37.3 | 68.10 | Spurious hyphens after bullets in this list | As it says in the comment | Revised-Agree with the comment, remove the unnecessary hyphens.Apply the changes marked as #2972 in this document. |
| 3164 | Yunbo Li | 37.3.1 | 68.10 | remove the short dashes in the 3 subbullets | as in comment | Accepted- |
| 3252 | GEORGE CHERIAN | 37.3.1 | 67.59 | Remove TBD | As in the comment |  |
| 3645 | Alfred Asterjadhi | 37.3.1 | 67.45 | Need to also call out explicitly the rules for the case of ICF/ICR combinaitons. Also the ELR procedure for ack is not really TBD but rather the PPDU selection procedure is to be defined. Hence need to add the rules for ELR to PPDU selection procedure | As in comment. |  |
| 3867 | Abhishek Patil | 37.3.1 | 67.43 | The sentence can be shortened - delete "... Per AID TID Info field received in the Multi-STA BlockAck frame, and". The new sentence would read: "A UHR STA that receives a Multi-STA BlockAck frame that is a response to frames requiring acknowledgment shall examine and process each Per AID TID Info field using ...." | As in comment | Revised-Agree with the comment.Apply the changes marked as #3867 in this document. |
| 3868 | Abhishek Patil | 37.3.1 | 67.45 | There will be other features/use cases where the MBA carries feedback information (potentially in addition to carrying a BA bitmap). Therefore, providing a reference only to DUO is incorrect. Instead, create a new section - perhaps in clause 9 (under MBA subclause) that lists all the possible feedback scenarios for various combinations of AckType/TID fields and provide a reference to that section here. In the new section (in clause 9), provide references to the normative clauses describing the behavior for each of the feedback types. | As in comment |  |
| 3869 | Abhishek Patil | 37.3.1 | 67.48 | It is possible that not all type feedback is allowed to be carried along with Per AID TID Info field carrying a BA Bitmap. Furthermore, not all feedback type combinations may be allowed. It will be helpful to have a table or some other way to represent which combinations are allowed (or disallowed). | As in comment |  |

**Discussion:** None.

***TGbn Editor: please modify the following paragraph of 802.11bn D0.1***

**37.3 UHR Acknowledgement Procedure**

**37.3.1 Overview**

The UHR acknowledgment procedure builds on the features defined for HT-immediate block ack (see 10.25.6 (HT-immediate block ack extensions)), HE acknowledgement (see 26.4 (HE acknowledgment procedure)) and EHT acknowledgement (see 35.4 (EHT acknowledgment procedure)).

A UHR STA that receives a Multi-STA BlockAck frame that is a response to frames requiring acknowledgment shall examine and process each Per AID TID Info field received in the Multi-STA BlockAck frame (#480, 2968, 3867)using the procedure defined in 26.4.2 (Acknowledgment context in a Multi-STA BlockAck frame), (#1682) and 37.11.2 (Dynamic Unavailability Operation (DUO) mode) or 37.22 (Low Latency Indication) when feedback context (#2969) is also carried in the same Multi-STA BlockAck frame.

A UHR STA that responds to a UHR MU PPDU with a UHR TB PPDU follows the same rules as an EHT STA that responds to an HE SU PPDU or HE ER SU PPDU with a TB PPDU as defined in 26.4.4.4 (Responding to an HE MU PPDU, HE SU PPDU, or HE ER SU PPDU with an HE TB PPDU) with the following changes:

— Replacing HE MU PPDU, HE SU PPDU or HE ER SU PPDU by UHR MU PPDU

— Replacing HE TB PPDU by UHR TB PPDU

— Replacing HE STA by UHR STA.

TBD procedure is for UHR ELR PPDU.

A UHR STA that responds to a UHR MU PPDU with a PPDU carrying a frame addressed to a single STA follows the same rules as an HE STA that responds to an HE MU PPDU with an SU PPDU as defined in 26.4.4.3 (Responding to an HE MU PPDU with an SU PPDU) with the following changes:

— Replacing HE MU PPDU by UHR MU PPDU

— Replacing SU PPDU by a PPDU carrying a frame addressed to a single STA

— Replacing HE STA by UHR STA.

A UHR AP that responds to a UHR TB PPDU with a PPDU other than a (#2971) UHR MU PPDU addressed to multiple STAs follows the same rules as an HE AP that responds to an HE TB PPDU with an SU PPDU as defined in 26.4.4.5 (Responding to an HE TB PPDU with an SU PPDU) with the following changes:

— -Replacing HE TB PPDU by UHR TB PPDU

—Replacing SU PPDU by a PPDU carrying a frame addressed to a single STA

—Replacing HE STA by UHR STA. (#2972)

A UHR AP that responds to a UHR TB PPDU with a UHR MU PPDU follows the same rules as an HE AP that responds to an HE TB PPDU with an HE MU PPDU as defined in 26.4.4.6 (Responding to an HE TB PPDU with an HE MU PPDU) with the following changes:

— Replacing HE TB PPDU by UHR TB PPDU

— Replacing HE MU PPDU by UHR MU PPDU

— Replacing HE STA by UHR STA.