### IEEE P802.11 Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Comment Resolution for 9.3.1.22.3 | | | | |
| Date: 2025-04-08 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Alice Chen | Qualcomm Inc. |  |  | alicel@qti.qualcomm.com |
| Alfred Asterjadhi | Qualcomm Inc. |  |  | aasterja@qti.qualcomm.com |
| Gaurang Naik | Qualcomm Inc. |  |  | gnaik@qti.qualcomm.com |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Abstract

This document contains comment resolutions for the following 16 CIDs related to subclause 9.3.1.22.3.

* 16, 113, 283, 557, 558, 1609, 2091, 2344, 2345, 2470,
* 2905, 2906, 3273, 3643, 3644, 3725.

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Revised version that incorporates received suggestions. Added the NPCA Primary Channel Indication. Presented in the TGbn Joint call on 5/12/2025.
* Rev 2: Changes based on discussion.

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 subsequent TGbn Draft. This introduction is not part of the adopted material.

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

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 16 | Jialing Li (Alice Chen) | 9.3.1.22.3 | 47.22 | Add the 9.3.1.22.4 HE variant User Info field. Need to revise the first paragraph, the NOTE under Table 9-46i, the paragraph starting with "The RU Allocation subfield in an HE variant ...", and last paragraph. Changes include updating the references to other subclauses and adding "UHR". | Refer to the comment. | Revised –  Agree to the comment in principle. Made specific changes. Also revise Table 9-46i to include new use cases of AID12 values being set to 2008 and 2011.  TGbn editor to make the changes shown in 11-25/0634r2 under all headings that include CID 16. |
| 113 | Ke Zhong | 9.3.1.22.3 | 46.47 | A slash "/" is missing in "EHTUHR(TBD)". | Replace "EHTUHR(TBD)" with "EHT/UHR(TBD)". | Accepted |
| 283 | Sigurd Schelstraete | 9.3.1.22.3 | 45.37 | Currently "PHY Version ID" in the special user infor field is linked to PHY generation. There is no reason why there should be a one-to-one mapping of PHY Versions and special User Fields. Propose to decouple the two (i.e. PHY Version ID for PHY generation, Field Version ID for Special User Info fields) | See comment | Rejected –  The special user info field accommodates the fields overflowed from the common info field. The field structure of the special user info field should be tied to the same variant of the common info field. Note that the UL Bandwidth Extension, EHT/UHR Spatial Reuse 1, EHT/UHR Spatial Reuse 2, U-SIG Disregard And Validate subfields are all tied to the PHY version (e.g. EHT or UHR), bandwidth modes and U-SIG field structure defined for the given PHY version. There is no need or clear benefit to define a separate Field Version ID. |
| 557 | Eunsung Park | 9.3.1.22.3 | 46.47 | Add "/" in "EHTUHR(TBD)". | Change to "EHT/UHR(TBD)". | Accepted |
| 558 | Eunsung Park | 9.3.1.22.3 | 47.02 | Change bold letters to normal letters in the text "Allowed settings of the Trigger frame fields and TRS Control subfield)". | See the comment. | Accepted |
| 1609 | Jian Yu | 9.3.1.22.3 | 47.13 | Define 37.TBD | as in comment | Revised –  Agree in principle with the comment. Proposed resolution adds the subclause titles to the draft so that the referenced TBD is fixed.  TGbn editor to make the changes shown in 11-25/0634r2 under all headings that include CID 1609. |
| 2091 | Vishnu Ratnam | 9.3.1.22.3 | 45.37 | The text reads "The PHY Version Identifier subfield indicates the PHY version of the solicited TB PPDU that is not an HE TB PPDU." But as per the current PDT, the PHY Version Identifier subfield also helps identify the version of the Common Info field. So text needs to be updated. Suggest to also change the name of the field accordingly. | As in comment. | Revised –  Agree to the comment in principle. Clarified this aspect. Field name remains the same as it is used in baseline as well.  TGbn editor to make the changes shown in 11-25/0634r2 under all headings that include CID 2091. |
| 2344 | Yan Zhang | 9.3.1.22.3 | 45.09 | "The Special User Info field is identified by an AID12 value of 2007" can be misleading. In MAC 261 motion, it says that "a new special user info field with AID12 set to 2008 of the BSRP Trigger frame to report CoEx unavilability information". Please rephrase the sentence. | Please change the sentence to "For Trigger frame sent by an EHT or UHR AP and Trigger frame variants except BSRP sent by a UHR non-AP STA, the Special User Info field is identified by an AID12 value of 2007 and is optionally present in a Trigger frame. More than one Special User Info fields may be present in a BFRP Trigger frame sent by a UHR non-AP STA, and Special User Info field is identfied by an AID12 value of either 2007 or 2008. The special User Info field identified by an AID12 vlaue of 2008 is optionally included in BSRP Trigger frame to report CoEx unavailbility information. | Revised –  The user info field with AID12 set to 2008 is renamed to Feedback User Info field, which is different from the Special User Info field described in this subclause, and as such is described in a separate 9.3.1.22.6a subclause. It won’t be in 9.3.1.22.3. This is resolved in 11-25/637r4.  TGbn editor to make no change. |
| 2345 | Yan Zhang | 9.3.1.22.3 | 45.16 | "The Special User Info field, if present, is located immediately after the Common Info field of the Trigger frame and carries information for the U-SIG field of a solicited EHT or UHR TB PPDU" is not entirely accurate since there are multiple Special User Info fields. Please rephrase. | Please change it to "The Special User Info field identified by an AID12 value of 2007, if present, is located immediately after the Common Info field of the Trigger frame and carries information for the U-SIG field of a solicited EHT or UHR TB PPDU. The Special User Info field identified by an AID12 value of 2008, if present, is located immediately after the Special User Info field identified by an AID12 value of 2007 and carries Coex unavilability information of a UHR non-AP STA.". | Revised –  The user info field with AID12 set to 2008 is renamed to Feedback User Info field, which is different from the Special User Info field described in this subclause, and as such is described in a separate 9.3.1.22.6a subclause. It won’t be in 9.3.1.22.3. This is resolved in 11-25/637r4.  TGbn editor to make no change. |
| 2470 | Thomas Handte | 9.3.1.22.3 | 45.08 | When the special user info field is optionally present, a STA responding to a trigger frame with a TB PPDU cannot determine the format (either EHT or UHR) | For example: The special user info field is present when the trigger frame triggers a EHT or UHR TB PPDU | Revised –  The formats of the TB PPDUs are clearly specified in table 9-46a. Adding a note to that extent.  TGbn editor to make the changes shown in 11-25/0634r2 under all headings that include CID 2470. |
| 2905 | Mark RISON | 9.3.1.22.3 | 46.47 | Why is "and Table 38-20 (U-SIG field of a UHR TB PPDU)(TBD)" in red? | As it says in the comment | Revised –  The SR field 1 and SR field 2 was marked TBD in U-SIG of TB PPDU in D0.1. Therefore, it was in red. Removed TBD to keep the SR fields. And instructed the editor to change the font from red to black.  TGbn editor to make the changes shown in 11-25/0634r2 under all headings that include CID 2905. |
| 2906 | Mark RISON | 9.3.1.22.3 | 47.12 | If the TXVECTOR parameters / U-SIG field for UHR have not been defined yet, then the subfields in the rows of the table might not be correct for UHR | As it says in the comment | Revised –  The TXVECTOR parameters will be largely the same. Proposed resolution adds the subclause titles to the draft so that the referenced TBD is fixed.  TGbn editor to make the changes shown in 11-25/0634r2 under all headings that include CID 2906. |
| 3273 | Hanqing Lou | 9.3.1.22.3 | 45.37 | PHY Version ID serves two purposes there. First it indicates the type of the TB PPDU; second it indicates the variant of the Common Info field. Please make this clear. | See Comment | Revised –  Agree to the comment in principle. Made similar changes.  TGbn editor to make the changes shown in 11-25/0634r2 under all headings that include CID 3273. |
| 3643 | Alfred Asterjadhi | 9.3.1.22.3 | 45.04 | There are some inconsistencies in the Special User Info field. Note that it is also present in Triggers that solicit non-HT (Dup) PPDUs carrying CTS and M-BA. In these cases a bunch of fields are reserved so need to call them out. Check and make sure it is consistent. | As in comment. | Revised –  Agree to the comment in principle. Made several changes throughout, including addition of the NPCA primary channel indication.  TGbn editor to make the changes shown in 11-25/0634r2 under all headings that include CID 3643. |
| 3644 | Alfred Asterjadhi | 9.3.1.22.3 | 46.05 | Similar consideration for this table. It would also apply to the variants that solicti non-HT(dup) PPDUs as well is my take? Check and ensure it is consistent. Also I think this table was taken from 11be and as such the underlines are missing.please add them. | As in comment. | Revised –  Agree. Made a slightly different change that doesn’t include “UL/DL”.  TGbn editor to make the changes shown in 11-25/0634r2 under all headings that include CID 3644. |
| 3725 | Li-Hsiang Sun | 9.3.1.22.3 | 46.05 | UL Bandwidth Extension subfield the BW could be used in DL/UL non-HT PPDU instead of UL TB-PPDU | change heading of table 9-46g to include UL/DL non-HT duplicate PPDU | Revised –  Agree. Made a slightly different change that doesn’t include “UL/DL”.  TGbn editor to make the changes shown in 11-25/0634r2 under all headings that include CID 3752. |

* **Special User Info field**

The Special User Info field is a User Info field that does not carry user specific information but carries extended common information not provided in the Common Info field.

***TGbn editor: Please change the paragraphs below as follows [#3643, 2470]:***

The Special User Info field is identified by an AID12 value of 2007 and is optionally present in a Trigger frame that is generated by an EHT AP.

NOTE 1—An EHT AP does not use the value 2007 as an AID for any STA associated to it (see 35.15.1 (Basic EHT BSS operation) and 37.4 (UHR BSS operation)).

NOTE 2—The length of the Special User Info field is equal to the length of the other User Info fields present in the same Trigger frame, except when the Trigger frame is an MU-BAR Trigger frame (see 9.3.1.22.10 (MU-BAR Trigger frame format)).

NOTE 3—The Special User Info field is not included in the Trigger frame unless the Trigger frame includes one or more EHT variant User Info fields (see 35.5.2.1 (General)) or one or more UHR variant User Info fields (see 35.3a.2.1 (General))*[#3643]*.

NOTE 4 – The format of the TB PPDU sent in response to a Trigger frame and presence of the Special User Info field in the Trigger frame are shown in Table 9-46a (Valid combinations of B54 and B55 in the Common Info field, PHY Version Identifier field in the Special User Info field,B39 in the User Info field, and solicited TB PPDU format).*[#2470]*

***TGbn editor: Please change the paragraphs below as follows [#3643]:***

The Special User Info field, if present, is located immediately after the Common Info field of the Trigger frame and carries information for the U-SIG field of a solicited EHT or UHR TB PPDU if the Trigger frame is neither an MU-RTS Trigger frame nor a BSRP NTB Trigger frame, and carries information for the solicited non-HT (duplicate) PPDU if the Trigger frame is an MU-RTS Trigger frame (see 9.3.1.22.11 (MU-RTS Trigger frame format) or a BSRP NTB Trigger frame (see 9.3.1.22.12 (BSRP Trigger frame format)*[#3643]*.

***TGbn editor: Please change the figure below as follows, including font change from red to black [#2905]:***

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0   B11 | | B12  B14 | B15    B16 | B17      B20 | B21     B24 | B25     B36 | B37 | B38 B39 |  |
|  | AID12 | | PHY Version Identifier | UL Bandwidth Extension | EHT/UHR*[#2905]* Spatial Reuse 1 | EHT/UHR*[#2905]* Spatial Reuse 2 | U-SIG Disregard And Validate | NPCA Primary Channel Indication | Reserved | Trigger Dependent User Info |
| Bits: | 12 | | 3 | 2 | 4 | 4 | 12 | 1 | 2 | variable |
|  | | * **Special User Info field format** | | | | | | | | |

***TGbn editor: Please change the paragraphs below as follows [#3273, 2091, 3643]:***

The PHY Version Identifier subfield indicates the variant of a Common Info field that is not an HE variant, and *[#3273, 2091]*the PHY version of the solicited TB PPDU that is not an HE TB PPDU. The PHY Version Identifier subfield is set to 0 for EHT and is set to 1 for UHR. The values from ~~1~~2 to 7 are reserved.

The UL Bandwidth Extension subfield, together with the UL BW subfield in the Common Info field, indicates the bandwidth of the solicited TB PPDU (i.e., the bandwidth in the U-SIG field of the EHT TB PPDU or UHR TB PPDU) if the Trigger frame is not an MU-RTS Trigger frame (see 9.3.1.22.11 (MU-RTS Trigger frame format))*[#3643]*, non-HT PPDU or non-HT duplicate PPDU*[#3644, 3725]*. The UL Bandwidth Extension subfield is defined in Table 9-46g (UL Bandwidth Extension subfield encoding).

The NPCA Primary Channel Indication subfield indicates whether the Trigger frame is transmitted on the NPCA primary channel. If the PHY Version Identifier subfield is set to 1, the NPCA Primary Channel Indication field is set to 1 if the Trigger frame is transmitted by an NPCA STA that has switched to the NPCA primary channel (see 37.11 (Non-primary channel access (NPCA)) and is set to 0 otherwise. If the PHY Version Identifier subfield is set to 0, the NPCA Primary Channel Indication subfield is reserved*[#3643]*.

***TGbn editor: Please change the table below as follows [#3644, 3725]:***

|  |  |  |  |
| --- | --- | --- | --- |
| * **UL Bandwidth Extension subfield encoding** | | | |
| **UL BW** | **Bandwidth for HE TB PPDU (MHz)** | **UL Bandwidth Extension** | **Bandwidth for EHT/UHR TB PPDU or non-HT (duplicate) PPDU*[#3644, 3725]* (MHz)** |
| 0 | 20 | 0 | 20 |
| 0 | 20 | 1 | Reserved |
| 0 | 20 | 2 | Reserved |
| 0 | 20 | 3 | Reserved |
| 1 | 40 | 0 | 40 |
| 1 | 40 | 1 | Reserved |
| 1 | 40 | 2 | Reserved |
| 1 | 40 | 3 | Reserved |
| 2 | 80 | 0 | 80 |
| 2 | 80 | 1 | Reserved |
| 2 | 80 | 2 | Reserved |
| 2 | 80 | 3 | Reserved |
| 3 | 160 | 0 | Reserved |
| 3 | 160 | 1 | 160 |
| 3 | 160 | 2 | 320 (for 320 MHz-1 defined in 36.3.24.2 (Channelization for 320 MHz channel)) |
| 3 | 160 | 3 | 320 (for 320 MHz-2 defined in 36.3.24.2 (Channelization for 320 MHz channel)) |

***TGbn editor: Please change the paragraphs below as follows, including font change from red to black [#113, 2905, 558, 557]:***

The EHT/UHR*[#2905]* Spatial Reuse *n* subfield, , carries the values to be included in the corresponding Spatial Reuse *n* subfield in the U-SIG field of the EHT or UHR*[#2905]* TB PPDU. The values for the EHT/*[#113, 557]*UHR*[#2905]* Spatial Reuse *n* subfields are defined in Table 36-31 (U-SIG field of an EHT TB PPDU) and Table 38-21 (U-SIG field of a UHR TB PPDU)*[#2905]*.

The U-SIG Disregard And Validate subfield carries the values to be included in the Disregard and Validate subfields of the U-SIG field of the solicited EHT or UHR TB PPDUs.The U-SIG Disregard And Validate subfield is further divided into three subfields as shown in Figure9-90e (U-SIG Disregard And Validate subfield format). Themapping from the subfields in the U-SIG Disregard And Validate subfield to subfields in the U-SIG field for an EHT or UHR TB PPDU is defined in Table9-46h (Mapping from Special User Info field to U-SIG-1 and U-SIG-2 fields in the EHT or UHR TB PPDU). The Validate In U-SIG-2 subfield is set to 1. The values of the Disregard In U-SIG-1 and Disregard In U-SIG-2 subfields are defined in 35.5.2.2.4 (Allowed settings of the Trigger frame fields and TRS Control subfield)*[#558]*.

***TGbn editor: Please change the table below as follows, including font change from red to black [#1609, 2906]:***

|  |  |
| --- | --- |
| * **Mapping from Special User Info field to U-SIG-1 and U-SIG-2 fields in the EHT or UHR TB PPDU** | |
| **Subfields in the**  **Special User Info field** | **Corresponding subfield of U-SIG field in elicited EHT or UHR TB PPDU**  **(see 35.5.2.3.2 (TXVECTOR parameters for EHT TB PPDU response to Trigger frame) and 37.3a.2.3.2 (TXVECTOR parameters for UHR TB PPDU response to Trigger frame)*[#1609, 2906]*** |
| Disregard In U-SIG-1 (B0–B5) | Disregard subfield of U-SIG-1 field (B20–B25 of U-SIG-1 field) |
| Validate In U-SIG-2 (B6) | Validate subfield of U-SIG-2 field (B2 of U-SIG-2 field) |
| Disregard In U-SIG-2 (B7–B11) | Disregard subfield of U-SIG-2 field (B11–B15 of U-SIG-2 field) |

***TGbn editor: Please change 9.3.1.22.4 as follows (taken from TGbe D7.0) as follows [#16]:***

* + - * 1. **HE variant User Info field**

## *Change the first paragraph as follows:*

The HE variant User Info field is defined in [Figure 9-90f (HE variant User Info field format)](#_bookmark76) for all Trigger frame variants except the NFRP Trigger frame, the MU-RTS TXS Trigger frame, the Ranging Trigger frame, and the BSRP NTB Trigger frame, which are defined in [9.3.1.22.15 (NFRP Trigger frame format)](#_bookmark94), [9.3.1.22.11 (MU-RTS Trigger frame](#_bookmark89) [format)](#_bookmark89), and [9.3.1.22.16 (Ranging Trigger frame format)](#_bookmark95), and 9.3.1.22.12 (BSRP Trigger frame format), respectively.*[#16]*

## *Change Table 9-46i and the two NOTEs as follows:*

**Table 9-46i—AID12 subfield encoding***[#16]*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **AID12 subfield** | **Description** | **Trigger frame variant applicability (see NOTE1)** | | |
| **HE** | **EHT** | **UHR** |
| 0 | User Info field allocates one or more contiguous RA-RUs for associated STAs in an HE variant Trigger frame.  User Info field is in a UHR variant BSRP NTB Trigger frame sent from a non-AT STA to an AP | Applicable | Not applicable | Applicable |
| 1–2006 | User Info field is addressed to an associated STA whose AID is equal to the value in the AID12 subfield in an HE variant or an EHT variant Trigger frame  User Info field is addressed to an associated STA whose AID is equal to the value in the AID12 subfield in a UHR variant Trigger frame, or in a UHR variant BSRP Trigger frame sent from an AP to another AP whose AID is equal to the value in the AID12 subfield | Applicable | Applicable | Applicable |
| 2007 | User Info field is addressed to an associated STA whose AID is equal to the value in the AID12 subfield in an HE variant Trigger frame sent by a non-EHT HE AP.  User Info field is a Special User Info field if the Special User Info Field Flag field in the EHT or UHR variant Common Info field is 0. | Applicable | Applicable | Applicable |
| 2008 | User Info field contains feedback (see 9.3.1.22.6a (Feedback User Info field)) | Applicable | Not applicable | Applicable |
| 2009-2010 | N/A | Not applicable | Not applicable | Not applicable |
| 2011 | User Info field contains a portion of an intermediate FCS (IFCS) (see 9.3.1.22.7 (Intermediate FCS)) | Applicable | Applicable | Applicable |
| 2012 | User Info field contains a Location Indication field (see 9.3.1.22.7a (Location Indication) | Applicable | Applicable | Applicable |
| 2013–2044 | N/A | Not applicable | Not applicable | Not applicable |
| 2045 | User Info field allocates one or more contiguous RA-RUs for unassociated STAs | Applicable | Not applicable | Not applicable |
| 2046 | Unallocated RU | Applicable | Applicable | Applicable |
| 2047–4094 | N/A | Not applicable | Not applicable | Not applicable |
| 4095 | Disallowed in a User Info field as it indicates the start of the Padding field | Applicable | Applicable | Applicable |
| NOTE1— Not applicable means that the particular AID12 value is not used for that variant and is reserved.  NOTE2—The Padding field, if present in a Trigger frame, is a field with all padding bits set to 1. The Padding field, if present, has a length of at least two octets and is located between the User Info List field and the FCS field (see [9.3.1.22.1 (General)](#_bookmark59)). | | | | |

NOTE—The value 2007 in the AID12 subfield can be used for an HE variant User Info field if the Trigger frame is generated by a non-EHT HE AP, whereas the value 2007 in the AID12 subfield cannot be used for an HE variant User Info field if the Trigger frame is generated by an EHT AP (see [9.3.1.22.3 (Special User Info field)](#_bookmark70) for details).***TGbn editor: Please insert the following subclauses [#1609, 2906]:***

**37.3a MU operation**

**37.3a.1 UHR DL MU operation**

**37.3a.1.1 General**

**37.3a.1.2 RU allocation in an UHR MU PPDU**

**37.3a.2 UHR UL MU operation**

**37.3a.2.1 General**

**37.3a.2.2 Rules for soliciting UL MU frames**

**37.3a.2.2.1General**

**37.3a.2.2.2Requirements for allocating resources**

**37.3a.2.2.3Padding for a Trigger frame**

**37.3a.2.2.4Allowed settings of the Trigger frame fields and TRS Control subfield**

**37.3a.2.2.5AP access procedures for UL MU operation**

**37.3a.2.3 Non-AP STA behavior for UL MU operation**

**37.3a.2.3.1General**

**37.3a.2.3.2TXVECTOR parameters for UHR TB PPDU response to Trigger frame**

**37.3a.2.3.3TXVECTOR parameters for UHR TB PPDU response to TRS Control subfield**

**37.3a.2.3.4Conditions for not responding with a TB PPDU**

**37.3a.2.4 UL MU CS mechanism for UHR STAs**