### **IEEE P802.11Wireless LANs**

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| CC36 CR for Trigger frame on Common Info field Part2 |
| Date: 2021-09-01 |
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**Abstract**

This submission proposes resolutions for following 35 comments received for TGbe CC36:

* 7481,8072,4878,5543,7895,7797,7409,4504,5507,4319,5508,4505,5657,5509,6146,7024,7798,8070,4964,5540,4965,7025,7683,8071,5440,4966,5541,5795,4877,5542,4340, 4341,5115,7794,7350

**Revisions:**

* Rev 0: Initial version of the document.

***TGbe editor: Please note Baseline is REVmd D5.0, 11ax D8.0, and 11be D1.1***

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| CID | Commenter | Clause | Page | Comment | Proposed Change | Resolution |
| 7481 | Tomoko Adachi | 9.3.1.22.1.1 | 89.56 | The setting of the Special User Info Field Present subfield needs to be described here. | Add the description in pp.ll 89.56 referring to 101.37-38. | **Revised**Agree with the commenter in principle. This has been resolved in doc: IEEE 21/1333r4 [https://mentor.ieee.org/802.11/dcn/21/11-21-1333-04-00be-cr-trigger-frame-common-info-field-format.docx].As a result, the subfield has been renamed to Special User Info Field Flag and corresponding description has been added**.**TGbe Editor: Please incorporate the changes as proposed by 11-21/1333r4 (CID 4327).  |
| 8072 | yujin noh | 9.3.1.22.1.1 | 89.49 | silimar description on Special User Info Field Present should be included like HE/EHT P160 when it comes to The UL HE-SIG-A2 Reserved subfield | as in comment | **Revised**Agree with the commenter in principle. This has been resolved in doc: IEEE 21/1333r4 [https://mentor.ieee.org/802.11/dcn/21/11-21-1333-04-00be-cr-trigger-frame-common-info-field-format.docx].As a result, the subfield has been renamed to Special User Info Field Flag and corresponding description has been added**.**TGbe Editor: Please incorporate the changes as proposed by 11-21/1333r4 **(CID 4327).**  |
| 4878 | Dong Guk Lim | 9.3.1.22.1 | 89.56 | The description for the special user info field present is missing, add it. | As in comment | **Revised**Agree with the commenter in principle. This has been resolved in doc: IEEE 21/1333r4 [https://mentor.ieee.org/802.11/dcn/21/11-21-1333-04-00be-cr-trigger-frame-common-info-field-format.docx].As a result, the subfield has been renamed to Special User Info Field Flag and corresponding description has been added**.**TGbe Editor: Please incorporate the changes as proposed by 11-21/1333r4 **(CID 4327).**  |
| 5543 | JINYOUNG CHUN | 9.3.1.22.1.1 | 89.56 | Add the description of Special User Info Field Present in Common Info field Section as other fields in Common Info field. | Add the below text in line 56 of Page 89:The Special User Info Field Present subfield of the EHT variant of the Common Info Field is set to 0 if the Special User Info field is included in the Trigger frame, otherwise it is set to 1. | **Revised**Agree with the commenter in principle. This has been resolved in doc: IEEE 21/1333r4 [https://mentor.ieee.org/802.11/dcn/21/11-21-1333-04-00be-cr-trigger-frame-common-info-field-format.docx].As a result, the subfield has been renamed to Special User Info Field Flag and corresponding description has been added**.**TGbe Editor: Please incorporate the changes as proposed by 11-21/1333r4 **(CID 4327).**  |
| 7895 | Yoshio Urabe | 9.3.1.22.1.1 | 89.56 | The definitions of B54 (HE/EHT P160) and B55 (Special User Info Field Present) in EHT variant Common field are missing. | Add descriptions of B54 and B55 before the paragraph of Trigger Dependent Common field. | **Revised**Agree with the commenter in principle. B54 has been resolved in D1.1 and B55 has been resolved in doc: IEEE 21/1333r4 [https://mentor.ieee.org/802.11/dcn/21/11-21-1333-04-00be-cr-trigger-frame-common-info-field-format.docx].As a result, the subfield has been renamed to Special User Info Field Flag and corresponding description has been added**.**TGbe Editor: Please incorporate the changes as proposed by 11-21/1333r4 **(CID 4327).**  |
| 7797 | Yanyi Ding | 9.3.1.22.1.1 | 87.53 | The description of 'HE/EHT P160' field is missing. | Insert a paragraph to describe 'HE/EHT P160' field. | **Revised**The corresponding text has been added in D1.1.Tgbe editor, there is to no further action to take |
| 7409 | SunHee Baek | 9.3.1.22.1.1 | 84.10 | An EHT AP shall send a MU-RTS TXS Trigger frame with the TXOP Sharing Mode subfield to an non-AP STA, which includes HE variant Common Info field within 160 MHz. When the EHT AP operates in 320 MHz, how to consist of the MU-RTS TXS Trigger frame? | It is needed to clarify it. | **Rejected** The spec text has related rules defined.Clarifications for the commenter’s question: MU-RTS TXS Trigger frame is an MU-RTS Trigger frame as defined in 9.3.1.22.5 and follows the rules defined in 35.2.2.1 (MU-RTS Trigger frame transmission). Specifically for a MU-RTS transmitted with the 320 MHz bandwidth, 35.2.2.1 in D1.1. has the following rules: “If any non-AP EHT STA is addressed in an MU-RTS Trigger frame from an EHT AP and any of the following conditions is met, the User Info field addressed to an EHT STA in the MU-RTS Trigger frame shall be an EHT variant User Info field:— The bandwidth of the PPDU carrying the MU-RTS Trigger frame is 320 MHz.” |
| 4504 | Bin Tian | 9.3.1.22.1.1 | 85.64 | "See 26.5.2.3 (Non-AP STA behavior for UL MU operation) and 26.5.2.5 (UL MU CS mechanism) for details". Need to add the reference to EHT MAC | As in the comment | **Revised**Agree with the commenter in principleAdded references to the following subclauses: 35.4.2.3 (Non-AP STA behavior for UL MU operation) and 35.4.2.4 (UL MU CS mechanism for EHT STAs) Tgbe editor please implement changes as shown in doc 11-21/1449rx tagged as #4504 |
| 5507 | Jinsoo Choi | 9.3.1.22.1.1 | 86.01 | For clear interpretation, when the UL BW subfield indicates the bandwidth in the HE-SIG-A of the HE TB PPDU should be specified since this field can indicate the bandwidth either in the HE-SIG-A of HE TB PPDU or U-SIG of EHT TB PPDU. If the A-PPDU is triggered (later in Rel.2), this condition will be more important. | Modify as "When the Trigger frame solicits an HE TB PPDU, the UL BW subfield of the Common Info field indicates the bandwidth in the HE-SIG-A of the HE TB PPDU and is defined in Table 9-29d (UL BW subfield encoding)." | **Revised**Agree with the commenter in principleAs HE TB PPDU can only be triggered by an HE variant Common Info field in R1, ‘Common Info field’ has been revised to ‘HE variant Common Info field’ in the corresponding sentence for clear interpretation. In addition, the text for the EHT TB PPDU response has been revised.Tgbe editor please implement changes as shown in doc 11-21/1449rx tagged as #5507 |
| 4319 | Arik Klein | 9.3.1.22.1.1 | 86.24 | Need to specify that the UL BW subfield in this paragraph refers to the UL BE subfield in the EHT Variant of the Common Info field (and not to the subfield in the HE variant of the Common Info field) | Revise the sentence as follows:"The UL BW subfield of \*the EHT variant of the\* Common Info field along with the UL BW Extension subfield of the Special User Info field indicates the bandwidth in the U-SIG of the EHT TB PPDU ..." | **Revised**Agree with the commenter in principleAdded ‘EHT variant’ to the sentence to clarify that the text.Tgbe editor please implement changes as shown in doc 11-21/1449rx tagged as **#5507** (same as above) |
| 5508 | Jinsoo Choi | 9.3.1.22.1.1 | 86.25 | For clear interpretation, when the UL BW subfield indicates the bandwidth in the U-SIG of the EHT TB PPDU should be specified since this field can indicate the bandwidth either in the HE-SIG-A of HE TB PPDU or U-SIG of EHT TB PPDU. If the A-PPDU is triggered (later in Rel.2), this condition will be more important. | Modify as "When the Trigger frame solicits an EHT TB PPDU, the UL BW subfield of the Common Info field along with the UL BW Extension subfield of the Special User Info field indicates the bandwidth in the U-SIG of the EHT TB PPDU and is defined in Table 9-29j3 (UL Bandwidth Extension subfield encoding)." | **Revised**Agree with the commenter in principleAdded ‘EHT variant’ to the sentence to clarify that the text is only for EHT TB PPDU.Tgbe editor please implement changes as shown in doc 11-21/1449rx tagged as **#5507** (same as above) |
| 4505 | Bin Tian | 9.3.1.22.1.1 | 86.18 | Add a note that "80+80" doesn't apply to the EHT TB PPDU. | as in the comment. | **Revised**Agree with the commenter in principleTgbe editor please implement changes as shown in doc 11-21/1449rx tagged as #4505 |
| 5657 | Joseph Levy | 9.3.1.22.1.1 | 86.26 | U-SIG is the name of a field, but it is not referred to as a field at many locations in the draft. Correct the reference to U-SIG to be U-SIG field wherever it is used. | Replace "U-SIG" with "U-SIG field". There are also many other location were "U-SIG" should be replaced by "U-SIG field". | **Accepted**Replaced "U-SIG" with "U-SIG field". Tgbe editor please implement changes as shown in doc 11-21/1449rx tagged as #5657 and do a global update where ‘field’ is missing behind ‘U-SIG’ |
| 5509 | Jinsoo Choi | 9.3.1.22.1.1 | 87.02 | MU-MIMO EHT-LTF Mode should be MU-MIMO HE-LTF Mode since there is no MU-MIMO EHT-LTF Mode defined in 11be. | As in comment | **Revised**Agree with the commenter in principleThis has been resolved in doc: IEEE 21/1333r4 [https://mentor.ieee.org/802.11/dcn/21/11-21-1333-04-00be-cr-trigger-frame-common-info-field-format.docx].As a result, the subfield has been renamed to ‘Reserved’**.**TGbe Editor: Please incorporate the changes as proposed by 11-21/1333r4 (**CID 4503**). |
| 6146 | Mengshi Hu | 9.3.1.22.1.1 Common Info field | 87.02 | It is a little bit confusing saying that "The MU-MIMO EHT-LTF Mode subfield of the Common Info field is reserved in a Trigger frame soliciting an EHT TB PPDU" and find the subfield is called MU-MIMO HE-LTF Mode subfield in EHT TB PPDU. It is better to change the description. Since there is no MU-MIMO EHT-LTF Mode subfield in that figure, it is confusing that saying it is reserved. Furthermore, if that is reserved, does it mean that the MU-MIMO HE-LTF Mode subfield in EHT TB PPDU is reserved? | Change the description or the figure for consitency. | **Revised**Agree with the commenter in principleThis has been resolved in doc: IEEE 21/1333r4 [https://mentor.ieee.org/802.11/dcn/21/11-21-1333-04-00be-cr-trigger-frame-common-info-field-format.docx].As a result, the subfield has been renamed to ‘Reserved’ and it’s consistent with the text now.TGbe Editor: Please incorporate the changes as proposed by 11-21/1333r4 (**CID 4503**). |
| 7024 | Sigurd Schelstraete | 9.3.1.22.1.1 | 87.02 | "The MU-MIMO EHT-LTF Mode subfield of the Common Info field is reserved in a Trigger frame soliciting an EHT TB PPDU.". There should not be an MU-MIMO EHT-LTF Mode subfield for EHT. | Remove sentence or replace with "There is no MU-MIMO EHT-LTF Mode subfield in a Trigger frame soliciting an EHT TB PPDU" | **Revised**Agree with the commenter in principleThis has been resolved in doc: IEEE 21/1333r4 [https://mentor.ieee.org/802.11/dcn/21/11-21-1333-04-00be-cr-trigger-frame-common-info-field-format.docx].As a result, the subfield has been renamed to ‘Reserved’ and it’s consistent with the text now.TGbe Editor: Please incorporate the changes as proposed by 11-21/1333r4 (**CID 4503**). |
| 7798 | Yanyi Ding | 9.3.1.22.1.1 | 87.02 | Since 'The MU-MIMO EHT-LTF Mode subfield of the Common Info field is reserved in a Trigger frame soliciting an EHT TB PPDU', so the 'MU-MIMO EHT-LTF Mode subfield' does not actually exist. There should only be 'MU-MIMO HE-LTF Mode subfield' as shown in Figure 9-64b1 of P84. | Revise the 'MU-MIMO EHT-LTF Mode' to 'MU-MIMO HE-LTF Mode'. Or change the 'MU-MIMO HE-LTF Mode' field in P84L10 to 'MU-MIMO HE/EHT-LTF Mode' field. | **Revised**Agree with the commenter in principleThis has been resolved in doc: IEEE 21/1333r4 [https://mentor.ieee.org/802.11/dcn/21/11-21-1333-04-00be-cr-trigger-frame-common-info-field-format.docx].As a result, the subfield has been renamed to ‘Reserved’ and it’s consistent with the text now.TGbe Editor: Please incorporate the changes as proposed by 11-21/1333r4 (**CID 4503**). |
| 8070 | yujin noh | 9.3.1.22.1.1 | 87.02 | MU-MIMO HE-LTF Mode should be MU-MIMO EHT-LTF Mode to be consistent | as in comment | **Revised**Agree with the commenter in principleThis has been resolved in doc: IEEE 21/1333r4 [https://mentor.ieee.org/802.11/dcn/21/11-21-1333-04-00be-cr-trigger-frame-common-info-field-format.docx].As a result, the subfield has been renamed to ‘Reserved’ and it’s consistent with the text now.TGbe Editor: Please incorporate the changes as proposed by 11-21/1333r4 (**CID 4503**). |
| 4964 | Eunsung Park | 9.3.1.22.1.1 | 87.03 | Specify the default value of the MU-MIMO EHT-LTF Mode subfield when this subfield is reserved. | Set it to 0. | **Revised**Agree with the commenter in principleThis has been resolved in doc: IEEE 21/1333r4 [https://mentor.ieee.org/802.11/dcn/21/11-21-1333-04-00be-cr-trigger-frame-common-info-field-format.docx].As a result, the subfield has been renamed to ‘Reserved’ and it’s set to 0.TGbe Editor: Please incorporate the changes as proposed by 11-21/1333r4 (**CID 4503**). |
| 5540 | JINYOUNG CHUN | 9.3.1.22.1.1 | 87.52 | For the clariciation, add the text such as "if Doppler subfield of the Common Info field is 1, then the Number of EHT-LTF Symbols And Midamble Periodicity subfield of Common Info field is reserved in a Trigger frame soliciting an EHT TB PPDU." | as a comment | **Revised**Agree with the commenter in principleThis has been resolved in doc: IEEE 21/1333r4 [https://mentor.ieee.org/802.11/dcn/21/11-21-1333-04-00be-cr-trigger-frame-common-info-field-format.docx].As a result, the ‘Doppler’ subfield has been renamed to ‘Reserved’ and the ‘EHT-LTF Symbols And Midamble Periodicity’ subfield has been renamed to ‘EHT-LTF Symbols’. TGbe Editor: Please incorporate the changes as proposed by 11-21/1333r4 (**CID 5439**). |
| 4965 | Eunsung Park | 9.3.1.22.1.1 | 87.60 | Specify the default value of the UL STBC subfield when this subfield is reserved. | Set it to 0. | **Revised**Agree with the commenter in principleThis has been resolved in doc: IEEE 21/1333r4 [https://mentor.ieee.org/802.11/dcn/21/11-21-1333-04-00be-cr-trigger-frame-common-info-field-format.docx].As a result, the ‘UL STBC subfield has been renamed to ‘Reserved’ and default value is 0TGbe Editor: Please incorporate the changes as proposed by 11-21/1333r4 (**CID 4503**). |
| 7025 | Sigurd Schelstraete | 9.3.1.22.1.1 | 87.60 | "The UL STBC subfield of the Common Info field is reserved in a Trigger frame soliciting an EHT TB PPDU.". There should not be an UL STBC subfield for EHT. | Remove sentence or replace with "There is no UL STBC subfield in a Trigger frame soliciting an EHT TB PPDU" | **Revised**Agree with the commenter in principleThis has been resolved in doc: IEEE 21/1333r4 [https://mentor.ieee.org/802.11/dcn/21/11-21-1333-04-00be-cr-trigger-frame-common-info-field-format.docx].As a result, the ‘UL STBC’ subfield has been renamed to ‘Reserved’ and default value is 0TGbe Editor: Please incorporate the changes as proposed by 11-21/1333r4 (**CID 4503**). |
| 7683 | Xiaofei Wang | 9.3.1.22.1.1 | 88.11 | it is not clear which values "for the values above 60" refers to, is that the value of Fval or value of the AP Tx Power subfield. Please clarify | as in comment | **Revised**Revised the text to clarify that the values are for F\_Val. Tgbe editor please implement changes as shown in doc 11-21/xxxxrx tagged as #7683 |
| 8071 | yujin noh | 9.3.1.22.1.1 | 88.38 | Equation (27-118) only indicates HE case. Equation (36-94) should be added to indicate EHT case. | as in comment | **Revised**Agree with the commenter in principleRevised text in Table 9-29g to refer to Equation (36-94) for EHT TB PPDUTgbe editor please implement changes as shown in doc 11-21/1449rx tagged as #8071 |
| 5440 | Jian Yu | 9.3.1.22.1.1 | 89.05 | Better to define HE Spatial Reuse field and EHT Spatial reuse field in the common field and special user info field, respectively. | as in comment | **Revised**Agree with the commenter in principleRenamed ‘Spatial Reuse n” subfields in the Special User Info field to ‘EHT Spatial Reuse n”, as these subfields are used by EHT TB PPDU only. However, the ‘Spatial Reuse n’ may be used by HE TB PPDU later, so it is better to leave them as is. Tgbe editor please implement changes as shown in doc 11-21/1449rx tagged as #5440 |
| 4966 | Eunsung Park | 9.3.1.22.1.1 | 89.43 | Specify the default value of the Doppler subfield when this subfield is reserved. | The default value should be 0 since the Number Of EHT-LTF Symbols And Midamble Periodicity subfield is depending on the Doppler subfield and needs to indicate the number of EHT-LTF symbols. | **Revised**Agree with the commenter in principleThis has been resolved in doc: IEEE 21/1333r4 [https://mentor.ieee.org/802.11/dcn/21/11-21-1333-04-00be-cr-trigger-frame-common-info-field-format.docx].As a result, the ‘Doppler’subfield has been renamed to ‘Reserved’ and default value is 0TGbe Editor: Please incorporate the changes as proposed by 11-21/1333r4 (**CID 4503**). |
| 5541 | JINYOUNG CHUN | 9.3.1.22.1.1 | 89.43 | In Page 87, "If the Doppler subfield of the Common Info field is 0, then the Number Of EHT-LTF Symbols And Midamble Periodicity subfield of the Common Info field indicates the number EHT-LTF symbols present in the EHT TB PPDU"So it's better that the subfield set to 0 for EHT TB PPDU. | change the text as follow:The Doppler subfield of the Common Info field is set to 0 in a trigger soliciting an EHT TB PPDU | **Revised**Agree with the commenter in principleThis has been resolved in doc: IEEE 21/1333r4 [https://mentor.ieee.org/802.11/dcn/21/11-21-1333-04-00be-cr-trigger-frame-common-info-field-format.docx].As a result, the ‘Doppler’subfield has been renamed to ‘Reserved’ and default value is 0TGbe Editor: Please incorporate the changes as proposed by 11-21/1333r4 (**CID 4503**). |
| 5795 | Lei Huang | 9.3.1.22.1.1 | 89.43 | The Doppler subfield of the Common Info field in a trigger soliciting an EHT TB PPDU shall be set to 0. This is because the Number of HE/EHT-LTF Symbols And Midamble Periodicity field can be interpretted properly in a Trigger frame soliciting an EHT TB PPDU only when the Doppler subfield is set to 0. | Change "The Doppler subfield of the Common Info field is reserved in a trigger soliciting an EHT TB PPDU" to ""The Doppler subfield of the Common Info field is reserved in a trigger soliciting an EHT TB PPDU and shall be set to 0". | **Revised**Agree with the commenter in principleThis has been resolved in doc: IEEE 21/1333r4 [https://mentor.ieee.org/802.11/dcn/21/11-21-1333-04-00be-cr-trigger-frame-common-info-field-format.docx].As a result, the ‘Doppler’subfield has been renamed to ‘Reserved’ and default value is 0TGbe Editor: Please incorporate the changes as proposed by 11-21/1333r4 (**CID 4503**). |
| 4877 | Dong Guk Lim | 9.3.1.22.1 | 89.51 | HE AP should be set the UL HE-SIGA2 reserved subfield to all 1s. but, EHT AP can set the specific bits of this field as either 0 or 1 according to solicited TB PPDU type. So, to make it clear, use a separate paragraph to describe the EHT case. | As in comment | **Revised**Agree with the commenter in principleAs suggested, split the paragraph on the bits mapped to UL-SIG-A2 Reserve subfield into two paragraphs and described the HE variant Common Info case and the EHT variant Common Info case separately.Tgbe editor please implement changes as shown in doc 11-21/1449rx tagged as #4877 |
| 5542 | JINYOUNG CHUN | 9.3.1.22.1.1 | 89.51 | if EHT AP only trigger HE TB PPDU, the EHT AP shall set the UL HE-SIG-A2 Reserved subfield to all 1s even though the field name is changed because HE STA read the field to UL HE-SIG-A2. So the text has to be clarified. | change the text as follow:An HE AP sets the UL HE-SIG-A2 Reserved subfield to all 1s and an EHT AP sets the Reserved 7bits(B56-B62) to all 1s when HE/EHT P160 subfield of the Common Info field to 1 and Special User Info Field Present of the Common Info field to 1. unless If the AP is an EHT AP, in which case the AP sets HE/EHT P160 subfield ~ | **Revised**Agree with the commenter in principleIf EHT AP only trigger HE TB PPDU, the HE variant Common Info field will be used according to 21/1233r3 [https://mentor.ieee.org/802.11/dcn/21/11-21-1233-03-00be-cc36-cr-on-9-3-1-22-1-1.docx]. The resolution to CID 4877 in this document 11-21/1449rx clarified that UL-SIG-A2 Reserve subfield is set to 1s. Tgbe editor please implement changes as shown in doc 11-21/1449rx tagged as **#4877** |
|  |
| ***Discussion****:* The following 5 CIDs are on whether to merge B56-B62 and B63 in the Common Info field to a single subfield or to keep them separate as is**Background**: B56-B62 and B63 have different usage in HE, which is why there is a separation between them* B56-B62 are copied to the HE-SIG-A2 field of an HE TB PPDU
* B63 is left for future MAC expansion

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | B54 | B55 | B56 | B57 | B58 | B59 | B60 | B61 | B62 | B63 |
| From HE variant Common Info field | UL HE-SIG-A2 Reserved (copied to HE-SIG-A2 in HE TB PPDU) | Reserved (for future MAC expansion) |
|  |  |  |  |  |  |  |  |  |  |  |
|  | B54 | B55 | B56 | B57 | B58 | B59 | B60 | B61 | B62 | B63 |
| From EHT variant Common Info field | HE/EHT P160 | Special User Info Field Flag | Reserved (if HE TB PPDU is allowed to be solicited in R2, still copied to its HE-SIG-A2) | Reserved |

**Analysis:*** There is no compelling technical advantage to merge them.
* From function logic and clarity point of view, the two reserved fields serve different purposes and it’s better to keep separated
	+ E.g., if an HE TB PPDU is allowed to be solicited by the EHT variant Common Info field in R2, such separation will still be inherited in that case.

**Proposal**: * Keep them separate as is
* Change the B56-B62 reserved fields to a different name like EHT reserved.
 |
| 4340 | Arik Klein | 9.3.1.22.1.1 | 84.32 | Why do we need 2 consecutive "Reserved" fields in the common Info field, EHT variant? Seems redundant | Unify it into a single Reserved subfield (B56..B63) | **Revised**Agree with the commenter that B56 to B63 are all reserved bits. However, there is no compelling technical advantage to merge B56-B62 with B63. From function logic and clarity point of view, the two reserved fields serve different purposes and it’s better to keep them separated as in HE.As a resolution, B56 to B62 are renamed to ‘EHT Reserved’. Tgbe editor please implement changes as shown in doc 11-21/1449rx tagged as #4340 |
| 4341 | Arik Klein | 9.3.1.22.1.1 | 84.32 | Combine the 2 adjacent "Reserved" subfields (B56..B62 and B63) into a single "Reserved" subfield (B56..B63) in Figure 9-64b1 (Common Info field format, EHT variant) | As in comment | **Revised** Agree with the commenter that B56 to B63 are all reserved bits. However, there is no compelling technical advantage to merge B56-B62 with B63. From function logic and clarity point of view, the two reserved fields serve different purposes and it’s better to keep them separated as in HE.As a resolution, B56 to B62 are renamed to ‘EHT Reserved’. Tgbe editor please implement changes as shown in doc 11-21/1449rx tagged as #**4340** |
| 5115 | Geonjung Ko | 9.3.1.22.1.1 | 84.30 | There are two successive Reserved fields. | Combine them to one Reserved field. | **Revised** Agree with the commenter that B56 to B63 are all reserved bits. However, there is no compelling technical advantage to merge B56-B62 with B63. From function logic and clarity point of view, the two reserved fields serve different purposes and it’s better to keep them separated as in HE.As a resolution, B56 to B62 are renamed to ‘EHT Reserved’. Tgbe editor please implement changes as shown in doc 11-21/1449rx tagged as #**4340** |
| 7794 | Yanyi Ding | 9.3.1.22.1.1 | 84.32 | There are two reserved fields (B56-B62, B63) in the common field, looks odd and unnecessary. | Merge these two reserved fields, make it a single reserved field (B56-B63). | **Revised** Agree with the commenter that B56 to B63 are all reserved bits. However, there is no compelling technical advantage to merge B56-B62 with B63. From function logic and clarity point of view, the two reserved fields serve different purposes and it’s better to keep them separated as in HE.As a resolution, B56 to B62 are renamed to ‘EHT Reserved’. Tgbe editor please implement changes as shown in doc 11-21/1449rx tagged as #**4340** |
| 7350 | Stephen McCann | 9.3.1.22.1.1 | 84.29 | In Figure 9-64b1, there is no reason to have 2 reserved sub-fields, starting at bits B56 and B63, as no whole octet boundary is crossed. | Merge the two reserved sub-fields "B56-B62" and "B63" into one reserved sub-field "B56-B63". | **Revised** Agree with the commenter that B56 to B63 are all reserved bits. However, there is no compelling technical advantage to merge B56-B62 with B63. From function logic and clarity point of view, the two reserved fields serve different purposes and it’s better to keep them separated as in HE.As a resolution, B56 to B62 are renamed to ‘EHT Reserved’. Tgbe editor please implement changes as shown in doc 11-21/1449rx tagged as #**4340** |

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. This introduction is 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 802.11 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.***

* + - 1. **Trigger frame format**
				1. **General**

**Common Info field**

***TGbe editor: Please update the paragraph (P96L18 in D1.1) on the CS Required subfield as follows:***

The CS Required subfield of the Common Info field is set to 1 to indicate that the STAs identified in the User Info fields are required to use ED to sense the medium and to consider the medium state and the NAV in determining whether or not to respond. The CS Required subfield is set to 0 to indicate that the STAs identified in the User Info fields are not required to consider the medium state or the NAV in determining whether or not to respond. See 26.5.2.3 (Non-AP STA behavior for UL MU operation),26.5.2.5 (UL MU CS mechanism), 35.4.2.3 (Non-AP STA behavior for UL MU operation) and 35.4.2.4 (UL MU CS mechanism for EHT STAs) for details. (#4504)

***TGbe editor: Please add a NOTE to the bottom of Table 9-29d and update the two the paragraphs (P96L27 in D1.1) on this table as follows:***

The UL BW subfield of the HE variant (#5507) Common Info field indicates the bandwidth in the HE-SIG-A of the HE TB PPDU and is defined in [Table 9-29d (UL BW subfield encoding)](#bookmark19).

**Table 9-29d—UL BW subfield encoding**

|  |  |
| --- | --- |
| **UL BW****subfield value** | **Description** |
| 0 | 20 MHz |
| 1 | 40 MHz |
| 2 | 80 MHz |
| 3 | 80+80 MHz or 160 MHz |

(#4505) NOTE – 80+80 MHz is not applicable to EHT TB PPDU.

The UL BW subfield of the EHT variant (#5507) Common Info field along with the UL BW Extension subfield of the Special User Info field indicates the bandwidth in the U-SIG field (#5657) of the EHT TB PPDU and is defined in [Table 9-29j3](#bookmark38) [(UL Bandwidth Extension subfield encoding)](#bookmark38).

***TGbe editor: Please update the paragraph (P98L38 in D1.1) on AP Tx Power subfield as follows:***

The AP Tx Power subfield of the Common Info field indicates the AP’s combined transmit power at the transmit antenna connector of all the antennas used to transmit the triggering PPDU in units of dBm/ 20 MHz. The transmit power in dBm/20 MHz, *PTX*, is calculated as *PTX* = –20 + *FVal*, where *FVal* is the value of the AP Tx Power subfield. Values above 60 are reserved for the AP Tx Power subfield (#7683).

***TGbe editor: Please update the last row of Table 9-29g (P99L17 in D1.1) as follows:***

**Table 9-29g—Pre-FEC Padding Factor and PE Disambiguity subfields**

|  |  |  |
| --- | --- | --- |
| **Subfield** | **Description** | **Encoding** |
| Pre-FEC Padding Factor | Indicates the pre-FEC padding factor | Set to 0 to indicate a pre-FEC padding factor of 4 Set to 1 to indicate a pre-FEC padding factor of 1 Set to 2 to indicate a pre-FEC padding factor of 2 Set to 3 to indicate a pre-FEC padding factor of 3 |
| PE Disambiguity | Indicates PE disambiguity | When an HE TB PPDU is solicited, set to 1 if the condition in Equation (27-118) is met; otherwise it is set to 0When an EHT TB PPDU is solicited, set to 1 if the condition in Equation (36-94) is met; otherwise it is set to 0 (#8071) |

***TGbe editor: Please update the B17 to B24 in Figure 9-64f3 (P114L13 in D1.1) as follows:***

B0 B11 B12 B14 B15 B16 B17 B20 B21 B24 B25 B36 B37 B39

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| AID12 | PHYVersion ID | ULBandwidth Extension | EHT Spatial Reuse 1 (#5440) | EHT Spatial Reuse 2 (#5440) | U-SIGDisregard And Validate | Reserved | Trigger Dependent User Info |

Bits: 12 3 2 4 4 12 3 variable

**Figure 9-64f3—Special User Info field format**

***TGbe editor: Please update the 3rd last paragraph (P115L23 in D1.1) of subclause 9.3.1.22.1.3 as follows:***

The EHT Spatial Reuse *n* subfield, 1  *n*  2 , is set to the same value as its corresponding Spatial Reuse *n* subfield in the U-SIG of the EHT TB PPDU, which are defined in Table 36-31 (U-SIG field of an EHT TB PPDU). (#5440)

***TGbe editor: Please update the 21st, 22nd, 23th, 24th, and 25th paragraphs (P99L50 in D1.1) of subclause 9.3.1.22.1 as follows:***

(#1599)When the Trigger frame solicits an EHT TB PPDU, each Spatial Reuse *n* subfield, 1  *n*  4 , of the Common Info field is determined based on either the EHT Spatial Reuse 1 subfield or the EHT Spatial Reuse 2 subfield of the Special User Info field (see [9.3.1.22.1.3 (Special User Info field)](#bookmark36)) as described below.(#5440)

(#1599)When the Trigger frame solicits a 20 MHz EHT TB PPDU, each Spatial Reuse *n* subfield, 1  *n*  4 , of the Common Info field is set to the value of the EHT Spatial Reuse 1 subfield of the Special User Info field.(#5440)

(#1599)When the Trigger frame solicits a 40 MHz EHT TB PPDU, the Spatial Reuse 1 subfield and the Spatial Reuse 3 subfield of the Common Info field are set to the value of the EHT Spatial Reuse 1 subfield of the Special User Info field and the Spatial Reuse 2 subfield and the Spatial Reuse 4 subfield of the Common Info field are set to the value of the EHT Spatial Reuse 2 subfield of the Special User Info field.(#5440)

(#1599)When the Trigger frame solicits an 80 MHz EHT TB PPDU or a 160 MHz EHT TB PPDU, the Spa- tial Reuse 1 subfield and the Spatial Reuse 2 subfield of the Common Info field are set to the value of the EHT Spatial Reuse 1 subfield of the Special User Info field and the Spatial Reuse 3 subfield and the Spatial Reuse 4 subfield of the Common Info field are set to the value of the EHT Spatial Reuse 2 subfield of the Special User Info field.(#5440)

(#1599)When the Trigger frame solicits a 320 MHz EHT TB PPDU, each Spatial Reuse *n* subfield, 1  *n*  4 , of the Common Info field is set to the smaller of the values of the EHT Spatial Reuse 1 subfield and the EHT Spatial Reuse 2 subfield of the Special User Info field.(#5440)

***TGbe editor: Please split the 2nd last paragraph (P100L29 in D1.1) in subclause 9.3.1.22.1.1 into the following two paragraphs (difference from D1.1 is highlighted):***

(#4877)The UL HE-SIG-A2 Reserved subfield of the HE variant Common Info field carries the value to be included in the Reserved field in the HE-SIG-A2 subfield of the solicited HE TB PPDUs. An HE AP sets the UL HE-SIG- A2 Reserved subfield of the HE variant Common Info field to all 1s. ~~unless the AP is a~~

(#4877)An EHT AP ~~in which case the AP~~ sets HE/EHT P160 subfield of the EHT variant Common Info field to 0 to indicate to an EHT STA that the solicited TB PPDU in the primary 160 MHz is an EHT TB PPDU and sets HE/EHT P160 subfield of the EHT variant Common Info field to 1 to indicate that the solicited TB PPDU in the primary 160 MHz is an HE TB PPDU.

***TGbe editor: Please rename B56-B62 in Figure 9-64b1 (P95L18 in D1.1) as follows:***

B55 B56 B62 B63

|  |  |  |  |
| --- | --- | --- | --- |
| Special | EHT Reserved (#4340) |  | Trigger |
| User Info FieldFlag | Reserved  | Dependent Common Info |
|  |

Bits: 1 7 1 variable

**Figure 9-64b1—EHT variant Common Info field forma**