IEEE P802.11
Wireless LANs

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| Comment resolutions for miscellaneous CIDs – Part 1 |
| Date: 2018-09-01 |
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Abstract

This submission proposes resolutions for multiple comments related to TGba D1.0 with the following CIDs (11 CIDs):

* 1024, 1227, 285, 337, 370, 382, 707, 708, 714, 996,
* 1184

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Addresses some comments received from Yunsong. Changes in green.
* Rev 2: Minor editorials. Not tracked in color since they are editorial changes.

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 TGba Draft. This introduction is not part of the adopted material.

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

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

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| **CID** | **Commenter** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 1024 | Tomoko Adachi | 19.00 | Add the acronym description for VL. | As in comment. | Revised –Agree in principle. Added acronym (for fixed length, which is the name as per changes due to other CIDs).Note to TGba editor. This has already been included in TGba D1.1.TGba editor: Please add: “FL fixed-length” to the list of acronyms in subclause 3.4 (maintaining alphabetical order). |
| 1227 | Yunsong Yang | 19.65 | Add ML and VL in clause 3.4 | Insert the following abbreviations in clause 3.4 according to the alphabetical order: "ML minimal length" and "VL variable length". | Revised –Agree in principle. Added acronym (for fixed length, which is the name as per changes due to other CIDs) and for VL as suggested.Note to TGba editor. This has already been included in TGba D1.1.TGba editor: Please add: “FL fixed-length” to the list of acronyms in subclause 3.4 (maintaining alphabetical order).TGba editor: Please add: “VL variable-length” to the list of acronyms in subclause 3.4 (maintaining alphabetical order). |
| 285 | Ganesh Venkatesan | 35.19 | Where is IPN defined? An entry is also needed in either the definitions of in the acronymns clause. | Define IPN in the definitions and/or the acronymns clause. | Rejected –IPN is already defined in the standard. Quoting from IEEE802.11REVmd D1.6 P208L7:“IPN IGTK packet number”.No further changes are needed for this comment. |
| 337 | Ihtisham Khalid | 35.19 | Only abbreviation is used for "IPN" | please mention full form when it is used for the first time in text. | Rejected –IPN is already defined in the standard. Quoting from IEEE802.11REVmd D1.6 P208L7:“IPN IGTK packet number”.No further changes are needed for this comment. |
| 370 | James Lepp | 35.19 | Acronym IPN is not defined in the document. | Add definition and expand acronym at first use in the document | Rejected –IPN is already defined in the standard. Quoting from IEEE802.11REVmd D1.6 P208L7:“IPN IGTK packet number”.No further changes are needed for this comment. |
| 382 | James Lepp | 32.58 | In section 9.10.2 the concept of ML WUR frames and VL WUR frames is used, but in 9.4.2.274 (figure 9-751f) the WUR Capabilities Information field format the bit indicating support it called "Nonzero Length Frame Body Support". This could be clearer to readers of the standard if we use the same terminology in the Capability bit as in the description of the frame types. |  | Revised –Agree in principle. Proposed resolution is to rename “Frame Body Support” to “VL WUR Frame Support”.TGba editor to make the changes shown in 11-18/2131r2 under all headings that include CID 382. |
| 707 | Minyoung Park | 33.39 | The name of the subfield "Protection Support" doesn't represent the function of the subfield. Please replace it with "Portected WUR Frame Support". | As shown in the comment. | Revised –Agree in principle with the comment. Proposed resolution accounts for the suggested change.TGba editor to make the changes shown in 11-18/2131r2 under all headings that include CID 707. |
| 708 | Minyoung Park | 33.39 | The support of the protected WUR frame is optional for both WUR AP and WUR non-AP STA. Therefore, this subfield should be used to indicate the capability of the WUR AP whether the AP supports the protected WUR frame generation or not. | Replace "Indicate support for the reception of protected WUR frame by the WUR non-AP STA."with the following:"For the WUR non-AP STA this subflied indicates support for the reception of protected WUR frame.For the WUR AP STA, this subfield indicates support for the transmission of protected WUR frame."Replace "Set to 1 to indicate support for the reception of protected WUR frame. Set to 0 otherwise."with the following:"Set to 1 to indicate support for the protected WUR frame. Set to 0 otherwise."Delete the following sentence in P33L46: "Reserved for a WUR AP." | Revised –Agree in principle with the comment. Proposed resolution accounts for the suggested change.TGba editor to make the changes shown in 11-18/2131r2 under all headings that include CID 708. |
| 714 | Minyoung Park | 35.19 | In the following sentence "The Common IPN filed indicates if a common IPN is used for all protected WUR frames generated within the BSS (see 31.8.3 (Generation and construction of IPN for WUR frames))." the encoding of the field is missing. | Add the meaning of the field when it is set to 1 and 0. Also there is typo "filed". Change it to "field". | Revised –Agree in principle with the comment. Proposed resolution adds the encoding as suggested and fixes the typo.TGba editor to make the changes shown in 11-18/2131r2 under all headings that include CID 714. |
| 996 | Suzanne Leicht | 33.42 | Suggest adding "a" or making frame plural in the definition forProtection Support | Indicate support for the reception of protected WUR frames. | Revised –Agree in principle with the comment. Proposed resolution clarifies as suggested.TGba editor: Please add “s” at the end of each occurrence of “frame” in the “Protection Support” row of Table 9-318a of TGba D1.0. |
| 1184 | yujin noh | 35.15 | In "The Counter field indicates the current value of the Counter subfield included in the broadcast WUR Wake-up frames.", there is bo clear definition of what broadcast WUR Wake-up frames are or how to make it. Add corresponding reference if existed or add defintion of broadcast WUR Wake-up frames at the end of the sentence | as in comment | Revised –Agree in principle with the comment. Proposed resolution is to add a reference as suggested.TGba editor: Please replace “The Counter field indicates the current value of the Counter subfield included in the broadcast WUR Wake-up frames (see 31.3.2 (Transmitter ID)).” with “The Counter field indicates the current value of the Counter subfield included in the broadcast WUR Wake-up frames (see 31.7).” in P35L15 of D1.0. |

**Discussion: *None.***

* WUR Capabilities element

**TGba Editor: *Change the figure below of this subclause as follows (#CID 382, 707, 708):***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0      B7 | B8 | B9      B10 | B11 | B12 | B13 | B14 B15 |
|  | PCR Transition Delay | VL WUR Frame Support | Group IDs Support | Protected WUR Frame Support | 20 MHz WUR PPDU with HDR Support | WUR Channel Switching Support | Reserved |
| BBits:  | 8 | 1 | 2 | 1 | 1 | 1 | 2 |
| * WUR Capabilities Information field format*(#382, 707, 708)*
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**TGba Editor: *Change the table below of this subclause as follows (#CID 382, 707, 708, 996):***

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| * Subfields of the WUR Capabilities Information field
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| Subfield | Definition | Encoding |
| PCR Transition Delay | Indicates the maximum time that the non-AP STA requires to transition its PCR component from the doze state to the awake state.  | The indicated value is equal to 256 × (value of the field plus 1) µs.Reserved for a WUR AP. |
| VL WUR Frame Support(#382) | Indicates support for the reception of VL WUR frames. | Set to 1 to indicate support for the reception of VL WUR frames. Set to 0 otherwise.Reserved for a WUR AP. |
| Group IDs Support | Indicates Group IDs support. | Set to 0 to indicate no support for group IDs. Set to 1 to indicate support for up to 16 group IDs. Set to 2 to indicate support for up to 32 group IDs. Set to 3 to indicate support for up to 64 group IDs.(#706)Reserved for a WUR AP. |
| Protected WUR Frame Support | Indicate support for protected WUR frames. | For a WUR non-AP STA:Set to 1 to indicate support for the reception of protected WUR frames. Set to 0 otherwise.For a a WUR AP:Set to 1 to indicate support for the transmission of protected WUR frames. Set to 0 otherwise. (#707, 708, 996) |
| 20 MHz WUR PPDU with HDR Support | Indicate support for the reception of 20 MHz WUR PPDU with HDR. | Set to 1 to indicate support for the reception of 20 MHz WUR PPDU with HDR. Set to 0 otherwise.Reserved for a WUR AP. |
| WUR Channel Switching Support | Indicates whether the WUR channel switching capability for receiving WUR Beacon and WUR Wake-up frames that are transmitted in different channels is enabled or disabled (see 31.9 (WUR FDMA operation)). | Set to 0 if the WUR channel switching capability is supported. Set to 1 if the WUR channel switching capability is not supported. |

9.4.2.275 WUR Operation element

**TGba Editor: *Change the paragraphs below of this subclause as follows (#CID 714, 1184):***

The Counter field indicates the current value of the Counter subfield included in the broadcast WUR Wake-up frames (see 31.3.2 (Transmitter ID)).*(#1184)*

The Common IPN field indicates if a common IPN is used for all protected WUR frames generated within the BSS. The Common IPN field is set to 1 to indicate that the IPN is common for all protected WUR frames and set to 0 to indicate that the IPN is separate for protected WUR frames addressed to different receivers (see 31.8.3 (Generation and construction of IPN for WUR frames)).*(#714)*

31.8 Protected WUR frames

**TGba Editor: *Change the paragraphs below of this subclause as follows (#CID 707, 708):***

A WUR AP may transmit a protected WUR frame addressed to a WUR non-AP STA if the Protected WUR Frame Support field in the WUR Capabilities element transmited by the AP and the non-AP STA is 1; otherwise the AP shall not transmit a protected WUR frame to the STA.

A WUR AP may transmit a protected WUR frame addressed to more than one WUR non-AP STAs if the Protected WUR Frame Support field in the WUR Capabilities element transmitted by the AP and all the non-AP STAs is 1. *(#707, 708)*