IEEE P802.11
Wireless LANs

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| LB271: CR for 9.3.3 |
| Date: May 17, 2023 |
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 Abstract

This submission proposes resolutions for following 8 CIDs received for TGbe LB271:

17474, 17475, 17476, 17477, 17478, 17479, 17480, 17481

**Revisions:**

* Rev 0: Initial version of the document.
* Rev 1: Revised resolution for CID 17478 based on offline feedback.

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.***

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| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Section** | **Pg.Ln** | **Comment** | **Proposed Change** | **Resolution** |
| 17474 | Brian Hart | 9.3.3.2 | 198.20 | Spurious article and two dashes (which make searching impossible) | Try "if dot11RestrictedTWTOptionImplemented" | **Accepted****TGbe editor: please note that changes are shown in document 11-23/466r1 tagged as 17474.** |
| 17475 | Brian Hart | 9.3.3.2 | 198.25 | A reader searching in Table 9-128 or the subsections of 9.4.2 will not find "Basic Multi-Link element" | Rewrite this as "Multi-Link element with Type equal to Basic (Basic Multi-Link element)"; ditto "Multi-Link element with Type equal to Reconfiguration (Reconfiguration Multi-Link element)". Do this for all tables in section 9.3.3 | **Rejected**The naming convention is common in the draft (for e.g., a Basic Trigger frame is simply called a Basic Trigger frame as opposed to a Trigger frame with variant basic). Moreover, the issue highlighted by the commenter will not occur since each subclause within 9.4.2.312 is named after the appropriate variant. For example, 9.4.2.312.2 is Basic Multi-Link element.  |
| 17476 | Brian Hart | 9.3.3.2 | 198.28 | Missing article | Try "otherwise \*the\* Multi-Link element is not present." | **Accepted****TGbe editor: please note that changes are shown in document 11-23/466r1 tagged as 17476.** |
| 17477 | Brian Hart | 9.3.3.6 | 198.28 | Missing article and strangle plural | Try " is sent by an EHT STA that has the Restricted TWT Support subfield in \*its\* transmitted EHT Capabilities element [singular] set to 1" | **Revised**Agree with the commenter. The suggested change is made in the Table corresponding to Association Response and Reassociation Response frames.**TGbe editor: please implement the changes shown in document 11-23/466r1 tagged as 17477.** |
| 17478 | Brian Hart | 9.3.3.6 | 199.55 | "Association Response frame is sent to a non-AP STA affiliated with a non-AP MLD" is a very weird protocol variant! | Insert a xref to this weird protocol variant. Ditto P201L39 | **Revised**A reference to the normative subclause is added at the cited locations. References are also added for Association Request and Reassociation Request frames.**TGbe editor: please implement the changes shown in document 11-23/466r1 tagged as 17478.** |
| 17479 | Brian Hart | 9.3.3.2 | 202.13 | A reader searching in Table 9-128 or the subsections of 9.4.2 will not find "Probe Response Multi-Link element" | Rewrite this as "Multi-Link element with Type equal to Probe Response (Probe Response Multi-Link element)". | **Rejected**The naming convention is common in the draft (for e.g., a Basic Trigger frame is simply called a Basic Trigger frame as opposed to a Trigger frame with variant basic). Moreover, the issue highlighted by the commenter will not occur since each subc`lause within 9.4.2.312 is named after the appropriate variant. For example, 9.4.2.312.2 is Basic Multi-Link element.  |
| 17480 | Brian Hart | 9.3.3.10 | 203.35 | Why is ML probe response defined in this section when the term is not used in this section? | Delete this para | **Accepted****TGbe editor: please note that changes are shown in document 11-23/466r1 tagged as 17480.** |
| 17481 | Brian Hart | 9.3.3.13 | 204.35 | Unclear what this "MLO Link Information" is | Try "MLO Link Information element" | **Revised**Agree with the commenter. The suggested change is made.**TGbe editor: please implement the changes shown in document 11-23/466r1 tagged as 17481.** |

***TGbe editor: Please note Baseline is 11be D3.1***

**9.3.3 (PV0) Management frames**

**9.3.3.2 Beacon frame format**

***TGbe editor: please update Table 9-60 as shown below [CID 17474, 17476]***

**Table 9-60 – Beacon frame body**

|  |  |  |
| --- | --- | --- |
| **Order** | **Information** | **Notes** |
| 79 | TWT | The TWT element is optionally present if dot11TWTOptionActivated is true. The TWT element is present if (#17474) dot11RestrictedTWTOptionImplemented is true and the AP has at least one R-TWT schedule as described in 35.8.4 (R-TWT SPs announcement); otherwise, it is not present. |
| <Last assigned + 1> | Multi-Link | If dot11MultiLinkActivated is true, the Basic Multi-Link element is present and the Reconfiguration Multi-Link element is optionally present (see 35.3.6.2.2 (Removing affiliated APs)); otherwise (#17476) the Multi-Link element is not present. |

**9.3.3.6 Association Request frame format**

***TGbe editor: please update Table 9-62 as shown below [CID 17478]***

**Table 9-62 – Association Request frame body**

|  |  |  |
| --- | --- | --- |
| **Order** | **Information** | **Notes** |
| <Last assigned + 1> | Multi-Link | The Basic Multi-Link element is present if dot11MultiLinkActivated is true and the Association Request frame is sent to an AP affiliated with an AP MLD; otherwise it is not present (see 35.3.5.4 (Usage and rules of Basic Multi-Link element in the context of multi-link (re)setup, authentication, and FT action frame exchange between two MLDs)) (#17478). |

**9.3.3.6 Association Response frame format**

***TGbe editor: please update Table 9-63 as shown below [CID 17477, 17478]***

**Table 9-63 – Association Response frame body**

|  |  |  |
| --- | --- | --- |
| **Order** | **Information** | **Notes** |
| 40 | TWT | The TWT element is present if dot11TWTOptionActivated is true and the TWT element is present in the Association Request frame that elicited this Association Response frame.The TWT element is optionally present if dot11TWTOptionActivated is true, dot11HEOptionImplemented is true, and the TWT Requester Support field in the HE Capabilities element in the Association Request frame that elicited this Association Response frame is 1.The TWT element is present if dot11RestrictedTWTOptionImplemented is true and the soliciting Association Request frame is sent by an EHT STA that has the Restricted TWT Support subfield in (#17477) its transmitted EHT Capabilities (#17477) element set to 1, and the AP has at least one R-TWT schedule as described in 35.8.4 (R-TWT SPs announcement).Otherwise, the TWT element is not present.If the TWT element is present in the Association Request frame that solicits the Association Response frame but the TWT element is not present in the Association Response frame, then the STA can transmit another TWT request frame after association. |
| <Last assigned + 1> | Multi-Link | The Basic Multi-Link element is present if dot11MultiLinkActivated is true and the Association Response frame is sent to a non-AP STA affiliated with a non-AP MLD; otherwise it is not present (see 35.3.5.4 (Usage and rules of Basic Multi-Link element in the context of multi-link (re)setup, authentication, and FT action frame exchange between two MLDs)) (#17478). |

**9.3.3.7 Reassociation Request frame format**

***TGbe editor: please update Table 9-64 as shown below [CID 17478]***

**Table 9-64 – Reassociation Request frame body**

|  |  |  |
| --- | --- | --- |
| **Order** | **Information** | **Notes** |
| <Last assigned + 1> | Multi-Link | The Basic Multi-Link element is present if dot11MultiLinkActivated is true and the Reassociation Request frame is sent to an AP affiliated with an AP MLD; otherwise it is not present (see 35.3.5.4 (Usage and rules of Basic Multi-Link element in the context of multi-link (re)setup, authentication, and FT action frame exchange between two MLDs)) (#17478). |

**9.3.3.8 Reassociation Response frame format**

***TGbe editor: please update Table 9-65 as shown below [CID 17477, 17478]***

**Table 9-65 – Reassociation Response frame body**

|  |  |  |
| --- | --- | --- |
| **Order** | **Information** | **Notes** |
| 43 | TWT | The TWT element is present if dot11TWTOptionActivated is true and the TWT element is present in the Reassociation Request frame that elicited this Reassociation Response frame.The TWT element is optionally present if dot11TWTOptionActivated is true, dot11HEOptionImplemented is true, and the TWT Requester Support field in the HE Capabilities element in the Reassociation Request frame that elicited this Reassociation Response frame is 1.The TWT element is present if dot11RestrictedTWTOptionImplemented is true and the soliciting Reassociation Request frame is sent by an EHT STA that has the Restricted TWT Support subfield in (#17477) its transmitted EHT Capabilities (#17477) element set to 1, and the AP has at least one R-TWT schedule as described in 35.8.4 (R-TWT SPs announcement).Otherwise, the TWT element is not present.If the TWT element is present in the Reassociation Request frame that solicits the Reassociation Response frame but the TWT element is not present in the Reassociation Response frame, then the STA can transmit another TWT request frame after association. |
| <Last assigned + 1> | Multi-Link | The Basic Multi-Link element is present if dot11MultiLinkActivated is true and the Reassociation Response frame is sent to a non-AP STA affiliated with a non-AP MLD ; otherwise it is not present (see 35.3.5.4 (Usage and rules of Basic Multi-Link element in the context of multi-link (re)setup, authentication, and FT action frame exchange between two MLDs)) (#17478). |

**9.3.3.9 Probe Request frame format**

***TGbe editor: please delete the following statement as shown below [CID 17480]***

 (#17480)

**9.3.3.13 Action frame format**

***TGbe editor: please update Table 9-71 as shown below [CID 17481]***

**Table 9-71 – Action frame body and Action No Ack frame body**

|  |  |
| --- | --- |
| **Order** | **Information** |
| Last - 4 | The MLO Link Information element (#17481) is present as defined in 35.3.14.2 (Identification of the Intended STA). Otherwise, not present. |