IEEE P802.11
Wireless LANs

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| LB271 CR for Misc. CIDs |
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Abstract

This submission proposes resolutions of comments received from TGbe comment collection LB271 based on TGbe D3.1.

17350 15497 17307 17392 17552 17553 16659 16192 (8 CIDs)

Revisions:

* Rev 0: Initial version of the document.
* Rev 1-2: Minor update
* Rev 3: add green tags
* Rev 4: update the resolution of CID 16659
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** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 17350 | 9.2.4.7.10 | 145.44 | I would still keep the Link ID Bitmap of 16 bits even though the last one is reserved. That way it is consistent with other places where these bitmaps are 16 bits long. | As in comment. | Revised-Agree with the comment in principle. Apply the changes marked as #17350 in this document. |
| 15497 | 9.2.4.7.10 | 145.46 | Why we need 5 reserved bits here, one or two are enough. | Change the reserved subfield to 1 bit. | Rejected-The comment fails to identify the technical issue. The reserved bits are for future use. |
| 17307 | 9.2.4.7.10 | 145.58 | Should subclause reference be with respect to the bit setting of 1 as opposed to 0? I believe it should. | As in comment. | Revised-Agree with the comment in principle. Apply the changes marked as #17307 in this document. |
| 17392 | 9.2.4.7.10 | 145.60 | Misue of "which" and the AAR Control field lacks an address so cannot be "addressed" | Try "The bit in the Assisting AP Link ID Bitmap subfield that corresponds to the AP to which the frame containing the AAR Control field is addressed is set to 0." | Accepted- |
| 17552 | 9.4.2.71 | 234.30 | Clearer if written as two subbullets starting "a value" | "if there is a change to: \* a value ... or \* a value ...\nOtherwise ..." | Revised-Agree with the comment in principle. Apply the changes marked as #17552 in this document. |
| 17553 | 9.4.2.71 | 234.32 | "any AP in the same AP MLD" should refer to "affiliated" | "any AP affiliated with the AP MLD" | Accepted- |
| 16659 | 35.3.10 | 257.25 | the information of reported AP's channel switch is not complete information. In 802.11 baseline specification after the channel switch, a STA can do the frme exchanges with the AP in the switched channel without receiving the Beacon in the switched channel. This (switch the chanel in reported AP's link per reporting AP's annoncement) may violate the regulatory requirement, e.g. using the punctured channel, using the Tx power being not allowed. | fix the issue per one of the following 1) mandating the inclusionof full information of reported AP's channel switch, 2) mandating the Beacon reception before the frame exchanges in the new channel when the new channel is acquired from another AP's Beacon | Revised-Agree with the comment in principle. Apply the changes marked as #16659 in this document. |
| 16192 | 　 | 526.49 | This sentece is related to independent scoreborad context control. Otherwise, there is no more than one scoreborad context control. | move this sentence the end of the first bullet. | Rejected-The sentence also applies to a common (single) scoreboard context control, so the further action is not needed. |

**Discussion:** None.

**9.2.4.7.8 AAR Control**

The Control Information subfield in an AAR Control subfield contains information of the link identifier(s) of the assisting AP(s) affiliated with an AP MLD that are requested to assist a non-AP STA affiliated with a non-AP MLD, belonging to an NSTR link pair, to recover its medium synchronization (35.3.16.8.3 (AP assisted medium synchronization recovery procedure)).The format of this subfield is shown in [Figure 9-33c (Control Information subfield format in an AAR Con-](#bookmark18) [trol subfield)](#bookmark18).

|  |  |  |
| --- | --- | --- |
|  | B0      B15 | B16 B19 |
|  | Assisting AP Link ID Bitmap  | Reserved |
| Bits: | 16 | 4 |
| **Figure 9-33c – Control Information subfield format in an AAR Control subfield (#17350)** |

The Assisting AP Link ID Bitmap subfield in the AAR Control subfield indicates the link(s) associated with the link identifier(s) of the assisting AP(s) affiliated with an AP MLD. A value of 1 in bit position *i* of the Assisting AP Link ID Bitmap subfield indicates that the AP operating on link ID *i* is requested to assist with the recovery of medium synchronization (see 35.3.16.8.3 (AP assisted medium synchronization recovery procedure)) (#17307). A value of 0 in bit position *i* of the Assisting AP Link ID Bitmap subfield indicates that the AP operating on link ID *i* is not requested to assist with the recovery of medium synchronization. (#17307)

The bit in the Assisting AP Link ID Bitmap subfield that corresponds to the AP to which the frame containing the AAR Control field is addressed, is set to 0. (#17392)

The bit in position 15 of the Assisting AP Link ID Bitmap subfield is reserved. (#17350)

**9.4.2.71 Nontransmitted BSSID Capability And Status element**

***Insert the following NOTEs after the fifth paragraph (“The Nontransmitted BSSID Capability And Status field contains the contents of...”):***

NOTE 1—The Critical Update Flag subfield of the Nontransmitted BSSID Capability And Status field is set to 1 in the Beacon frame(s) until and including the next DTIM Beacon frame of the nontransmitted BSSID if there is a change to

—a value carried in the BSS Parameters Change Count subfield of the MLD Parameters field in the Reduced Neighbor Report element for any AP affiliated with (#17553) the same AP MLD as the AP corresponding to the nontransmitted, or

—a value car-ried in the BSS Parameters Change Count subfield in the Common Info field of the Basic Multi-Link element in the Nontransmitted BSSID profile corresponding to the nontransmitted BSSID. Otherwise the subfield is set to 0 (See 35.3.10 (BSS parameter critical update procedure)). (#17552)

NOTE 2—The Nontransmitted BSSIDs Critical Update Flag subfield of the Nontransmitted BSSID Capability And Status field is reserved.

35.3.11 Multi-link procedures for channel switching, extended channel switching, and channel quieting

If an AP (affected/reported AP) affiliated with (#) an AP MLD is switching from an initial operating class/channel to a target operating class/channel at a target switch time using channel switch announcement or extended channel switch announcement procedure and includes a Max Channel Switch Time element in the Beacon and Probe Response frames it sends, and another AP (reporting AP) affiliated with the AP MLD, if any, receives a (Re)Association Request frame to perform multi-link setup with the AP MLD with the AP (affected/reported AP) as a requested link, then the other AP (reporting AP) shall include the complete profile for the AP indicating the target operating class/channel and a Max Channel Switch Time element in the per-STA profile corresponding to the AP (affected/reported AP) in the Basic Multi-Link element included in the (Re)Association Response frame it sends in response to indicate the time at which the AP (affected/reported AP) will start beaconing, if the (Re)Association Response frame is sent between the last beacon on the initial operating class/channel and the first beacon on the target operating class/channel. Otherwise, the other AP (reporting AP), if any, should not include a Max Channel Switch Time element or (Extended) Channel Switch Announcement element in (Re)Association Response frames.

When an AP (affected/reported AP)affiliated with (#) an AP MLD has announced quiet intervals other than quiet intervals scheduled to protect R-TWT SPs (see 35.8.4.2 (Quieting STAs during R-TWT SPs) ) using Quiet element and optionally Quiet Channel element, and another AP (reporting AP) of the same AP MLD, if any, receives a (Re)Association Request frame to perform multi-link setup with the AP MLD with the AP (affected/reported AP) as a requested link, then the other AP (reporting AP), if any, shall include the corresponding Quiet element and Quiet Channel element (if present) in the per-STA profile corresponding to the AP (affected/reported AP) in the Basic Multi-Link element included in the (Re)Association Response frame it sends in response. Otherwise, the other AP (reporting AP) should not include a Quiet element and Quiet Channel element in (Re)Association Response frames.

**35.15.3 Channel switching methods for an EHT BSS**

A non-AP MLD with which an associated EHT non-AP STA that has performed channel switching or extended channel switching is affiliated shall follow one of the following before initiating frame exchange with the AP on the new channel.

—The associated EHT non-AP STA receives a Beacon or Probe Response frame sent by the AP on the new channel.

—Any non-AP STA affiliated with the non-AP MLD except for the associated EHT non-AP STA sends a multi-link probe request to its associated AP soliciting information of the AP on the new channel. (#16659)