IEEE P802.11  
Wireless LANs

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| 802.11be LB CC36 resolution for CIDs assigned to Carol Ansley | | | | |
| Date: March 15, 2022 | | | | |
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Abstract

This submission proposes resolutions for the following 5 comments submitted during LB 257 for 11bc D2.0:

4283, 5028, 6176, 6619, 7319.

Revisions:

* Rev 0: Initial version of the document.
* Rev. 1: Updated based on comments
* Rev. 2: Further updates based on comments and updated to match D1.4 text.

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| **Page** | **CID** | **Comment** | **Proposed Change** | **Ad-hoc** | **Assignee** | **Resolution** |
| 0.00 | 4283 | I thought there is no "MLD" until after association. Please clarify. I think here it should simply be EHT STA to discover… | As in comment. | MAC | Carol Ansley | Reject. Text at issue is no longer in Draft 1.3 paragraph. |
| 246.17 | 5028 | Add the ability for MLD to establish TDLS | As in comment | MAC | Carol Ansley | Revised. Reference to TLDS added. Refer to 11-21-1973r2 for text. |
| 246.18 | 6176 | What is the relationship between an EHT STA and a MLD? This subclause should at least explain the relationship. Presumably an EHT STA can optionally support MLO. | Add "An EHT STA can operate as a MLD to support multi-link operation." at the beginning of the cited clause. | MAC | Carol Ansley | Revised. Refer to 11-21-1973r2 for text. |
| 243.18 | 6619 | The description in Clause 9 may also be supersede. Specifically, rules in 35.3.4.5 Active scanning for a non-AP EHT STA supersedes the element rule in clause 9. | Add clause 9 to be the maybe superceded list. | MAC | Carol Ansley | Reject. Clause 9 documents formats, not behavior. No change to text. |
| 243.10 | 7319 | "An EHT STA shall set dot11EHTBaseLineFeaturesImplementedOnly to true.". Can a STA really set a MIB parameter? Wouldn't it make more sense to have a corresponding capability bit and say that "An EHT STA with dot11EHTBaseLineFeaturesImplementedOnly equal to true shall set 'capability bit xyz' equal to 1". This way, there is room in future for devices that implement more than just the baseline features. | See comment | MAC | Carol Ansley | Revised. There is not a capability bit at this time. Text updated to clarify that the STA doesn't set its own parameter. Refer to 11-21-1973r2 for text. |

***TGbe Editor: The baseline for the proposed changes is 802.11be D1.4***

**35.1 Introduction**

***TGbc Editor: please update the subclause as shown below:***

An EHT STA ~~shall~~ sets dot11EHTBaseLineFeaturesImplementedOnly to true. [7319]

An EHT STA supports the MAC and MLME functions defined in Clause 35 (Extremely high throughput (EHT) MAC specification) in addition to the MAC functions defined in Clause 36 (High efficiency (HE) MAC specification) and Clause 10 (MAC sublayer functional descriptions), the MLME functions defines in Clause 11 (MLME) and the security functions defined in Clause 12 Security) except when the functions in Clause 35 (Extremely High Throughput (EHT) MAC specification) supersede the functions in Clause 10 (MAC sublayer functional description), Clause 11 (MLME), Clause 12 (security) or Clause 26 (High efficiency (HE) MAC specification).~~[6619]~~

A reference model for MLO is described in 4.9.5 (Reference model for multi-link operation (MLO).

**35.3.1 General**

***TGbc Editor: please update the following paragraphs in this subclause as shown below:***

An EHT STA that is affiliated with an MLD supports multi-link operation (MLO). An EHT AP supports MLO. [6176]

MLO enables a non-AP MLD to discover, authenticate, associate and set up multiple links with an AP MLD. Each link enables channel access and frame exchanges between the non-AP MLD and the AP MLD based on the supported capabilities exchanged during association. A non-AP MLD may establish a TDLS direct link with another non-AP MLD as defined in 35.3.21 (TDLS procedure in multi-link operation).[5028]

A STA, which is affiliated with an MLD, may select and manage its capabilities and operating parameters independently from the other STA(s) affiliated with the same MLD, unless specified otherwise.

NOTE 1—For example, each AP, which is affiliated with an AP MLD may select its BSS color corresponding to the BSS that the AP generates differently.

NOTE 2—Examples of operating parameters that are selected at the MLD level (i.e., not independently selected by affiliated STAs) are the listen interval (see 35.3.12.6 (Operation for MLD listen interval)) and the WNM sleep interval (see 11.2.3.1 (General)).

An EHT AP shall have dot11MultiLinkActivated set to true and shall be affiliated with an AP MLD. The EHT AP and its affiliated AP MLD follow the rules defined in 35.3 (Multi-link operation).