IEEE P802.11
Wireless LANs

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| Resolution for CIDs related to Multiple BSSID set (CC 34) |
| Date: March 20, 2021 |
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 Abstract

This submission proposes resolutions for following 6 CIDs received for TGbe CC34:

1096, 2275, 1095, 2292, 2540, 1819

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: contribution was revised based on feedback received from several members (added as co-authors)
* Rev 2: Based on inputs from Jarkko, the titles for clause 35.3.17 and AA.3 are updated to include co-hosted BSSID set

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** | **Pg/Ln** | **Section** | **Comment** | **Proposed Change** | **Resolution** |
| 1096 | Alfred Asterjadhi | 87.18 | 11.1.3.8.1 | This sentence is out of place. The requirement needs to be added to MLO subclauses rather than here. | As in comment. | **Revised**The cited sentence was moved to clause 35.3.17 and updated based on resolution to other comments.**TGbe editor please implement changes as shown in doc 11-21/0255r3 tagged as 1096** |
| 2275 | Michael Montemurro | 87.17 | 11.1.3.8.1 | I'm not even sure what this means. Does AP's belonging to a multiple BSSID set refer to the AP's advertised in a multple BSSID set, or does it refer to APs affiliated with an AP MLD? | Update the text to refer to APs affiliated with an AP MLD | **Revised**The cited text was moved to clause 35.3.17 as a resolution to CID 1096. The text is updated to clarify that an AP MLD can have at most one affiliated AP from a multiple BSSID set.**TGbe editor please implement changes as shown in doc 11-21/0255r3 tagged as 2275** |
| 1095 | Alfred Asterjadhi | 123.63 | 26.17 | Not the right location. This should be a requirement at the MLD level. Move to MLO operation (AP MLD side) and specify that the MLD shall not have affiliated APs of the same co-hosted BSS set. | As in comment. | **Revised**The cited sentence was moved to clause 35.3.17 and updated based on resolution to other comments. The titles of the subclause 35.3.17 and that of clause AA.3 were updated to include co-hosted BSSID set.**TGbe editor please implement changes as shown in doc 11-21/0255r3 tagged as 1095** |
| 2292 | Michael Montemurro | 123.62 | 26.17.7 | This text makes no sense. Does it mean "affiliated APs belonging"? Looking at 26.17.6 in P802.11ax D8.0, I'm not exactly sure how to fix it. | Perhaps change the cited sentence to "Affiliated APs of an AP MLD that belong to the same co-hosted BSSID shall not be affiliated with an AP MLD." | **Revised**The cited text was moved to clause 35.3.17 as a resolution to CID 1095. The text is updated to clarify that an AP MLD can have at most one affiliated AP from a co-hosted BSSID set. The titles of the subclause 35.3.17 and that of clause AA.3 were updated to include co-hosted BSSID set.**TGbe editor please implement changes as shown in doc 11-21/0255r3 tagged as 2292** |
| 2540 | Robert Stacey | 123.62 | 26.17.7 | Inappropriate passive statement. Normative statements must identify the implementation. | Change to "An AP that belongs to a co-hosted BSSID set shall not be an affiliated AP in an AP MLD if another affiliated AP in the AP MLD is already present in the co-hosted BSSID set." | **Revised**The cited text was moved to clause 35.3.17 as a resolution to CID 1095. The text is updated to clarify that an AP MLD can have at most one affiliated AP from a co-hosted BSSID set. The titles of the subclause 35.3.17 and that of clause AA.3 were updated to include co-hosted BSSID set.**TGbe editor please implement changes as shown in doc 11-21/0255r3 tagged as 2540** |
| 1819 | James Yee | 146.25 | 35.3.17 | Not sure if a "standalone AP" is well defined. | Clarify | **Revised**Deleted the term standalone AP. Also updated text in Annex AA**TGbe editor please implement changes as shown in doc 11-21/0255r3 tagged as 1819** |

***TGbe editor: Please note Baseline is 11be D0.4.***

11.1.3.8 Multiple BSSID procedure

11.1.3.8.1 General

***TGbe editor: Please update the following paragraph in this subclause as shown below:***

[CID 1096]

26.17.7 Co-hosted BSSID set

***TGbe editor: Please update the following paragraph in this subclause as shown below:***

[CID 1095]

***TGbe editor: Please update the title of clause 35.3.17 as shown below:***

**35.3.17 Multi-Link operation in a multiple BSSID set or co-hosted BSSID set**[CID 1095, 2292, 2540]

***TGbe editor: Please update the following paragraph in this subclause as shown below:***

[CID 1096, 2275]An AP MLD shall not have more than one affiliated AP amongst APs that are members of the same multiple BSSID set.

[CID 1095, 2292, 2540]An AP MLD shall not have more than one affiliated AP amongst APs that are members of the same co-hosted BSSID set.

[CID 1819]Each AP affiliated with an MLD shall be independently configured to operate as a transmitted or as a nontransmitted BSSID in a multiple BSSID set, or as an AP belonging to a co-hosted BSSID set, or as an AP that is not part of either a multiple BSSID set or a co-hosted BSSID set. Annex AA provides example configurations.

***TGbe editor: Please update the title of clause AA.3 as shown below:***

[CID 1095, 2292, 2540]AA.3 Example illustrating the relationship between multi-link operation and multiple BSSID set or co-hosted BSSID set

***TGbe editor: Please update the 5th & 6th paragraph and Figure AA.7 in clause AA.3 as shown below:***

[CID 1819]The second example illustrates the case where APs affiliated with an MLD belong to a mix of a multiple BSSID set, a co-hosted BSSID set and an AP that is not a member of multiple BSSID set or a co-hosted BSSID set. Since by definition, APs affiliated with an AP MLD have same properties (such as security), APs in a co-hosted BSSID set on a link are not part of the same AP MLD. Figure AA-7 (Example of mix of multiple BSSID set, co-hosted set and standalone AP in a multi-link setup) shows an example where APs affiliated with an MLD belong to a mix of multiple BSSID set, co-hosted set or is a standalone AP on their respective link.



**Figure AA-7—Example showing a mix of multiple BSSID set, co-hosted set and an AP that is not a member of any set** [CID 1819]

[CID 1819]As seen from Figure AA-7 (Example of mix of multiple BSSID set, co-hosted set and standalone AP in a multi-link setup), APs corresponding to BSSID-x, BSSID-z, and BSSID-y are part of the multiple BSSID set on link 1 and belong to different MLDs (MLD 1, MLD 2, and MLD 3, respectively). On link 1, AP-y, affiliated with MLD 3, corresponds to the transmitted BSSID for the multiple BSSID set on link 1. The three APs on link 2, AP-p, AP-q and AP-r, belong to the same co-hosted BSSID set and each is affiliated with a different MLD, MLD 1, MLD2 and MLD3 respectively. On link 3, there is a single AP (AP-b) that is affiliated with MLD 2.