**IEEE P802.11
Wireless LANs**

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| CC50 CR for CIDs related to AP ID assignment |
| **Date**:May 13, 2025.  |
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 **Abstract**

This submission proposes resolutions for following 9 CIDs received for TGbn CC50:

159, 1393, 481, 818, 2452, 1862, 1423, 3255, 3844.

**Revisions:**

Rev 0: Initial version of the document.

Rev 1: Removed 7 CIDs.

Rev 2: Revised the baseline.

Rev 3: Revised some phrases and updated the baseline.

***TGbn editor: The baseline for this document is 25/0599r13.***

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

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

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

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| **CID** | **Clause** | **Pg/Ln** | **Comment** | **Proposed Change** | **Resolution** |
| 159 | 37.8.1.3.2 | 72/8 | If one AP belong to a colocated AP set, all the APs in the same colocated AP set shall share the same assignement AP ID from another AP, we need consider such case. | the commenter will provide a solution on this. | Revised.Agree in principle.TGbn editor, please make the changes tagged by CID #159 in 25/0639r3. |
| 1393 | 37.8.1.3.2 | 72/8 | Wen an AP belongs to a co-located AP set, all members of that set must share a common assigned AP ID . This scenario requires explicit consideration in the specification. | As it says in the comment | Revised.Agree in principle. The change has been implemented as the similar comment, CID #159.TGbn editor, please make the changes tagged by CID #159 in 25/0639r3. |
| 481 | 37.8.1.3.2 | 72/4 | Can one AP have multiple AP IDs assigned by different APs with which it establishes a MAPC agreement? If so, how are these AP IDs managed? | Rules for assigning AP IDs and managing them should be provided | Revised.Agree in principle.TGbn editor, please make the changes tagged by CID #481 in 25/0639r3. |
| 818 | 37.8.1.3.2 | 72/3 | Does AP ID is unique per ESS? Or is it a private index at the initiating AP?Can a responding AP possess more than one AID (from different initiating APs)?Can AP allocate to other the same AP ID it was allocated by other AP? | Please clarify | Revised.Agree in principle. The change has been implemented as the similar comment, CID #481.TGbn editor, please make the changes tagged by CID #481 in 25/0639r3. |
| 2452 | 37.8.1.3.2 | 72/1 | AP ID assignment is done between AP pairs and a single AP may have different AP IDs with different AP it coordinates with. It would be beneficial if an AP has always the same AP ID. | Define an AP ID assignment procedure that has one AP ID across all AP it is coordinating with. | Revised.Agree in principle. The change has been implemented as the similar comment, CID #481.TGbn editor, please make the changes tagged by CID #481 in 25/0639r3. |
| 1862 | 37.8.1.3.2 | 72/1 | It is unclear whether the multiple coordinated APs can assign the same AP ID for an AP. | Please restrict an AP from being assigned multiple different AP IDs, or clarify the operation of an AP that operates with multiple AP IDs. | Revised.Agree in principle. The change has been implemented as the similar comment, CID #481.TGbn editor, please make the changes tagged by CID #481 in 25/0639r3. |
| 1423 | 37.8.1.3.2 | 72/8 | We should consider the AP ID allocation under MBSSID set | please add related allocation rules | Rejected. The AP ID allocation under MBSSID set has already been updated in the P802.11bn D0.2. |
| 3255 | 37.8.1.3.2 | 72/8 | Define the AP ID assignment such that, each AP assigns an ID to the neighboring APs that it is doing MAPC with | As in the comment | Rejected. The functionality is already supported in the baseline P802.11bn D0.2.  |
| 3844 | 9.4.1.8 | 57/47 | Make relevant updates to section 9.4.1.8 (AID field) to describe the rules around AP ID. | As in comment | Rejected. The relevant section has already been updated in the P802.11bn D0.2. |

**Proposed Texts:**

**37.8.1.3.2.1 AP ID assignment**

***TGbn Editor, please make the following proposed changes in 37.8.1.3.2.1 of 25/0599r13:***

When an AP participates in a MAPC negotiation to establish new MAPC agreement(s) as defined in 37.8.1.3.2 (MAPC agreement establishment), the AP shall additionally follow the rules defined in this subclause to assign an AP ID to a peer AP with which the AP establishes a MAPC agreement.

The AP ID is as described in 9.4.1.8 (AID field).

The same AP ID value shall not be assigned by the AP or by its affiliated MLD to any other STA.

NOTE—One AP might obtain the same or different AP IDs from its peer AP(s) after MAPC negotiation. (#481)

NOTE—The STA is an associated non-AP STA, an unassociated non-AP STA that has been allocated a (Ranging session Identifier) RSID, any other coordinated AP, or a non-AP MLD that is associated with the AP MLD.

The same AP ID value shall not be assigned by any other AP within the same multiple BSSID set to any other STA. If an AP belongs to an AP set (MBSSID set or co-hosted BSSID set), all APs in the same AP set that intend to participate MAPC scheme shall share the same AP ID assigned by another AP. (#159)

The AP ID value shall not be assigned by any other AP MLD that has any affiliated AP within the same multiple BSSID set to any other non-AP MLD.

The AP ID value shall be greater than 2n where n the value carried in the MBSSID Indicator (n) field of the Multiple BSSID element if the AP belongs to a multiple BSSID set.