IEEE P802.11
Wireless LANs

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| LB266 CR for remaining CIDs in 35.3.19.3 |
| Date: 2022-10-21 |
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This document proposes resolution to the following LB266 CIDs in 35.3.19.3 (changes relative to draft 2.3):

13424 13843 14033

Revisions:

* Rev0: Initial version of the document.
* Rev1: Updated based on offline feedback.

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| **CID** | **Page** | **Line** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 13424 | 470 | 8 | 35.3.19.3 | The statement is not right since 35.3.11 text mentions that the reported link transmitting channel switch per the reporting link's Beacon information. | Change the text per the comment. | **Revised**Agree with the comment. The issue pointed out by this comment was addressed by a resolution approved by the 11-22/1233r6. Incorporate the changes marked as #13425 in DCN 22/1233r6.**TGbe editor, no further changes are required for addressing this CID.** |
| 13843 | 470 | 8 | 35.3.19.3 | An NSTR mobile AP MLD cannot follow the same rules defined in 35.3.11. This is because the 35.3.11 says a reporting AP carries the corresponding element if the channel switching/queiting elements are included in the Beacon or Probe Response frame transmitted by an affected AP. (An AP operating on the non-primary link does not transmit the Beacon/Probe Response frame.) | Please make the appropriate changes to the 35.3.11(or 35.3.19.3) to allow the NSTR mobile AP MLD to transmit the channel switching/quieting element for the non-primary link through the primary link. | **Revised**Agree with the comment. The issue pointed out by this comment was addressed by a resolution approved by the 11-22/1233r6. Incorporate the changes marked as #13425 in DCN 22/1233r6.**TGbe editor, no further changes are required for addressing this CID.** |
| 14033 | 470 | 5 | 35.3.19.3 | Clarify primary link channel switch | Commenter will provide comment resolution | **Revised**Agree in principle. Texts clarifying channel switch of the NSTR mobile AP MLD are added.**TGbe editor, please apply the changes as shown in 11-22/1789r1 tagged with 14033.** |

**Discussion: Simultaneous Channel/Class switch of the primary link and the nonprimary link**

An NSTR mobile AP MLD may include both the Channel Switch Announcement element corresponding to the primary link and the Channel Switch Announcement element corresponding to the AP operating on the nonprimary link in the same Beacon/Probe Response frame.

If the value indicated by the Channel Switch Count field corresponding to the primary link is smaller than the value for the nonprimary link, counting down for the nonprimary link using the field cannot be completed before the AP operating on the primary link starts the channel switch. Therefore, an NSTR mobile AP MLD that includes the two Channel Switch Announcement elements in the same frame shall set the value of the Channel Switch Count field corresponding to the primary link to a value larger than or equal to a value of the Channel Switch Count field corresponding to the nonprimary link.

**Discussion: Non-AP MLD operation regarding the Channel/Class switch of the primary link**

If a non-AP MLD does not perform the channel switch announced for the primary link, the non-AP MLD is unable to utilize the nonprimary link as well; due to defined restrictions for the nonprimary link (e.g., channel access, beaconing, etc.). Therefore, a non-AP MLD that has chosen not to perform the channel switch of the primary link, needs to tear-down its association. If the non-AP STA operating on the nonprimary link responds to the received frame, the response frame is considered as a keepalive frame by the NSTR mobile AP MLD. It means that the response frame can lead unnecessary resource (e.g., radio frequency, memory, processing power, etc.) consumption on the NSTR mobile AP MLD-side. Therefore, the non-AP MLD shall not respond to the received frame from the NSTR mobile AP MLD on the nonprimary link if it has chosen not to perform the channel switch on the primary link.

**Proposed resolution:**

***TGbe editor: Please add the text (new bullet) proposed in this CR document at the end of the subclause 35.3.19.3:***

**35.3.19.3 NSTR mobile AP MLD multi-link procedures for channel switching, extended
channel switching, and channel quieting**

Multi-link procedures for channel switching, extended channel switching, and channel quieting for (#13425)an AP affiliated with an NSTR mobile AP MLD on the nonprimary link follow the same rules defined in 35.3.11 (Multi-link procedures for channel switching, extended channel switching, and channel quieting) with the following exceptions:

* (#13425)An AP affiliated with an NSTR mobile AP MLD on the primary link may schedule channel switching and quiet intervals for the AP affiliated with the same NSTR mobile AP MLD on the nonprimary link by including the corresponding elements in the STA Profile field of the Per-STA Profile subelement corresponding to the AP on the nonprimary link carried in Beacon frames and Probe Response frames that it transmits on the primary link.

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* (#14033)An NSTR mobile AP MLD shall set the value of the Channel Switch Count field in the (Extended) Channel Switch Announcement element corresponding to the primary link to be greater than or equal to the value of the Channel Switch Count field in the (Extended) Channel Switch Announcement element corresponding to the nonprimary link if the two (Extended) Channel Switch Announcement elements are included in the same Beacon/Probe Response frame.

***TGbe editor: Please make the following change in the NOTE2 in subclause 35.3.19.1:***

**35.3.19 NSTR mobile AP MLD operation**

**35.3.19.1 General**

(#10900)NOTE 2—An NSTR mobile AP MLD that intends to switch its primary and nonprimary links performs a
simultaneous channel switch (i.e., the Channel Switch Count field on the two links are set to the same value) on the primary link and nonprimary link following procedures defined in 11.8.8 (Selecting
and advertising a new channel), 11.8.9 (Channel Switch Announcement element operation), 11.9 (Extended channel
switching (ECS)), and 35.3.19.3 (NSTR mobile AP MLD multi-link procedures for channel switching, extended channel
switching, and channel quieting).