IEEE P802.11
Wireless LANs

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| 11be Spec text for Motion 146, SPs 336 & 337 related to critical updates Procedure |
| Date: 2021-01-07 |
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Abstract

We propose the draft text related to motion 146, SPs 336 & 3367 related to critical updates procedure to help the creation of TGbe draft D0.3.

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Minor editorial fixes
* Rev 2: Revised based on offline feedback

**The proposed texts is based on the following motions:**

If an AP corresponding to a nontransmitted BSSID in a multiple BSSID set is affiliated with an AP MLD, then the AP corresponding to the transmitted BSSID in the same Multiple BSSID set shall include in the Beacon and Probe Response frames it transmits the Change Sequence fields that indicate changes of system information for that AP corresponding to a nontransmitted BSSID and other APs within the AP MLD to which that AP corresponding to the nontransmitted BSSID is affiliated with, where the change sequence field value for each AP is initialized to 0, and is incremented when there is a critical update to the operational parameters for that AP.

[Motion 146, #SP336]

For the AP corresponding to nontransmitted BSSID in a multiple BSSID set, that is part of an MLD, the early indication shall be carried in the Nontransmitted BSSID Capability field (for that nontransmitted BSSID) in the Beacon frame(s) transmitted by the transmitted BSSID until (and including) the next DTIM Beacon frame of the nontransmitted BSSID when there is a change to the change sequence value for any other AP of that MLD reported in the RNR.

[Motion 146, #SP337]

**Proposed spec text:**

The baseline for this text is 802.11be D0.2.

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* BSS parameter critical update procedure

***TGbe editor: Please add the following as the 5th paragraph this subclause as follows:***

An AP within an AP MLD shall provide in the Critical Update Flag subfield of the Capability Information field (9.4.1.4 (Capability Information field)) of the Beacon and Probe Response frames it transmits an indication of an update to the value carried in the Change Sequence subfield of the MLD Parameters field in the Reduced Neighbor Report element for any AP in the same AP MLD. An AP shall provide this indication in the Beacon frame(s) until (and including) the next DTIM Beacon frame on the link that the AP is operating on.

If an AP corresponding to a nontransmitted BSSID in a multiple BSSID set is affiliated with an AP MLD, then the AP corresponding to the transmitted BSSID in the same Multiple BSSID set shall

* include in the Beacon and Probe Response frames it transmits the Change Sequence fields that indicate changes of system information for that AP corresponding to a nontransmitted BSSID and other AP(s) within the AP MLD to which that AP corresponding to the nontransmitted BSSID is affiliated with, where the change sequence field value for each AP is initialized to 0, and is incremented when there is a critical update to the operational parameters for that AP.
	+ The Change Sequence field for other AP(s) of the AP MLD to which the AP corresponding to the nontransmitted BSSID is affiliated with shall be carried in the MLD Parameters subfield in the TBTT Information field of the Reduced Neighbor Report element corresponding to that AP.
* provide in the Critical Update Flag subfield of the Nontransmitted BSSID Capability element (for that nontransmitted BSSID) an indication of an update to the value carried in the Change Sequence subfield of the MLD Parameters field in the Reduced Neighbor Report element for any AP in the same AP MLD. The transmitted BSSID in the multiple BSSID set shall provide this indication in the Beacon frame(s) (and including) the next DTIM Beacon frame of the nontransmitted BSSID.

A non-AP STA within a non-AP MLD may decode the Critical Update Flag subfield in the Capability Information field.