IEEE P802.11
Wireless LANs

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| PDT to address TBDs in 35.3.8 (Critical Updates Procedure) |
| Date: 2020-11-18 |
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Abstract

This document provides draft spec text for motion 137 SP#266.

Revisions:

* Rev 0: Initial version of the document.

**Discussion**

This PDT addresses a TBDs in clause 35.3.8. It provides spec text for defining a subfield in Capability Information field to indicate update to the change sequence field in RNR IE.

**Proposed spec text:**

The baseline for this text is 802.11be D0.1

* BSS parameter critical update procedure

*TGbe editor: Please make changes to the following paragraph as shown below:*

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.

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

* **Capability Information field**

*TGbe editor: Please make the following changes to the figure 9-85 as shown below:*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| B0 | B1 | B2 | B3 | B4 | B5 | B6 | B7 |
| ESS | IBSS | Reserved | Reserved | Privacy | Short Preamble | Critical Update Flag | Reserved |
|  |  |  |  |  |  |  |  |
| B8 | B9 | B10 | B11 | B12 | B13 | B14 | B15 |
| Spectrum Management | QoS | Short Slot Time | APSD | Radio Measurement | EPD | Reserved | Reserved |
| * **Capability Information field format (non-DMG STA)**
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An ERP STA sets dot11ShortPreambleOptionImplemented to true as all ERP STAs support both long and short preamble formats.

*TGbe editor: Please add the following paragraphs after the paragraph “An ERP STA sets dot11ShortPreambleOptionImplemented …” and before the paragraph starting “A STA sets the Spectrum Management subfield …” as shown below:*

The Critical Update Flag subfield is reserved except when Capability Information field is carried in a Beacon or a Probe Response frame transmitted by an AP of an AP MLD.

An AP of an AP MLD sets the Critical Update Flag subfield to 1 if there is a change to a 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. Otherwise the AP sets the subfield to 0.

NOTE – An AP sets the value to 1 in one or more Beacon frames by following the procedure defined in 35.3.8 (BSS parameter critical update procedure).

A STA sets the Spectrum Management subfield in the Capability Information field to 1 if dot11SpectrumManagementRequired is true; otherwise, it is set to 0.