802.11ba Draft Specification

|  |
| --- |
| Proposed Spec Text for Updating the Value of BSS Parameter Update Counter |
| Date: 2018-07-10 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Xiaofei Wang | InterDigital Inc. | South Wing, 4th Floor2 Huntington QuadMelville, NY 11747 | +1-631-622-4028 | Xiaofei.wang@interdigital.com |
| Hanaqing Lou |
| Rui Yang |
| Ming Gan | Huawei |  |  |  |
|  |  |  |  |  |

Abstract

This submission proposes the spec text based on the following motion approved in the May 2018 meeting.

* The current value of BPUC (BSS Parameter Update Counter) should be indicated to the STA before it enters WUR mode

The baseline for the proposed spec text is IEEE P802.11 Draft 0.3.

V0: initial draft

V1: small edits in “instruction to editors”

V2: change the name of “Counter” to “BSS Parameter Update Counter” and removed “wake up its PCR and” from section 31.7.3

V3: changes highlights in green.

V4: changes highlighted in purple

V5: added an author and corrected typos

**TGba Editor: *Instruction: Modify Section 31.7.2 AP Operation as follows:***

An AP with dot11WUROptionImplemented set to true shall maintain a BSS Parameter Update Counter. The AP shall increase the value of the BSS Parameter Update Counter when a critical update occurs to any of the elements inside the Beacon frame. The following events shall classify as a critical update:

* Inclusion of a Channel Switch announce element
* Inclusion of an Extended Channel Switch announce element
* Inclusion of a Wide Bandwidth Channel Switch element
* Inclusion of an Operating Mode Notification element
* Modification of the EDCA parameters
* Modification of the HT Operation element
* Modification of the VHT Operation element
* Modification of the DSSS Parameter Set
* Inclusion of a Channel Switch Wrapper element

The AP shall include the current value of the BSS Parameter Update Counter in the WUR Parameter field in the WUR Operation element contained in Beacon frames. The AP shall include a WUR Operation element in the WUR Mode Setup frames if the Counter value in the WUR Operation element has been recently updated.

The AP shall include the current value of the BSS Parameter Update Counter in the Counter subfield of the TD Control field in all transmitted broadcast WUR Wake up frames.

**TGba Editor: *Instruction: Modify Section 31.7.3 Non-AP STA Operation as follows:***

A non-AP STA with dot11WUROptionImplemented set to true shall maintain a BSS Parameter Update Counter. The STA shall update the value of its BSS Parameter Update Counter to the value of the Counter subfield contained in the latest WUR Operation element received from the AP with which it is associated. A non-AP STA that receives the Counter subfield of the TD Control field in a WUR Wake-up frame that contains a value that is different from the value of its BSS Parameter Update Countershall follow the procedure defined in 11.2.3.17 (TIM Broadcast) to attempt to receive the PCR Beacon information subject to its PCR delay constraints.(#Ed)