IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CC36 CR for CID 5034 | | | | |
| Date: 2021-09-27 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Yuxin Lu | Huawei |  |  | luyuxin1@huawei.com |
| Jason Yuchen Guo |  |  |  |
| Ming Gan |  |  |  |
| Yunbo Li |  |  |  |
| Guogang Huang |  |  |  |
| Yiqing Li |  |  |  |
|  |  |  |  |  |

Abstract

This submission proposes resolutions of comments received from TGbe comment collection CC36 based on TGbe D1.1.

* 5034

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Updated based on offline feedback.
  + Changes with respect to r0 highlighted in green

1. **Introduction**

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 TGbe Draft. The introduction and the explanation of the proposed changes are not part of the adopted material.

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

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Clause** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 5034 | Evgeny Khorov |  | 0.00 | It is not clear from the spec, if an EHT STA supports Intra-PPDU power save (26.14.1) | Adapt operation described in 26.14.1 to EHT STA | Revised.  Propose to revise Clause 26.14.1 to address this extension. Please refer to the below text for details  TGbe editor to make the changes shown in 21/1586r1 under all headings that include CID 5034. |

**Discussion:** None.

TGbe editor: Please modify 26.14.1 Intra-PPDU power save for non-AP HE STAs as follows: (track change on) (#CID 5034)

**26.14 Power management**

**26.14.1 Intra-PPDU power save for non-AP HE STAs**

Intra-PPDU power save is the power save mechanism for an HE STA to enter the doze state or become unavailable until the end of a received PPDU that is identified as an intra-BSS PPDU. The STA can enter the doze state if it is in PS mode and can become unavailable if it is in active mode (see 11.2.3.2).

A non-AP HE STA that has dot11IntraPPDUPowerSaveOptionActivated equal to true operates in intra-PPDU power save mode.

A non-AP HE STA that is in intra-PPDU power save mode may enter the doze state or become unavailable

until the end of a PPDU currently being received if one of the following conditions is met:

* The PPDU is an HE MU PPDU or EHT MU PPDU (if the STA is also an EHT STA)(#5034) where the RXVECTOR parameter BSS\_COLOR is the BSS color of the BSS in which the STA is associated, the RXVECTOR parameter UPLINK\_FLAG is 0, the RXVECTOR parameters STA\_ID do not include the identifier of the STA or the broadcast identifier(s) intended for the STA, and the BSS Color Disabled subfield is 0 in the most recently received HE Operation element from the AP with which it is associated.
* The PPDU is an HE MU PPDU, HE SU PPDU, HE ER SU PPDU, or EHT MU PPDU (if the STA is also an EHT STA) (#5034) and one of the following conditions is true:
  + The RXVECTOR parameter BSS\_COLOR is the BSS color of the BSS in which the STA is associated, the RXVECTOR parameter UPLINK\_FLAG is 1, and the BSS Color Disabled subfield is 0 in the most recently received HE Operation element from the AP with which it is associated.
  + The RXVECTOR parameter BSS\_COLOR is the BSS color of the BSS in which the STA is associated, the RXVECTOR parameter UPLINK\_FLAG is 0, a PHYRXEND.indication(UnsupportedRate) primitive was received, and the BSS Color Disabled subfield is 0 in the most recently received HE Operation element from the AP with which it is associated.
* The PPDU is an HE TB PPDU or EHT TB PPDU (if the STA is also an EHT STA) (#5034) where the RXVECTOR parameter BSS\_COLOR is the BSS color of the BSS in which the STA is associated and the BSS Color Disabled subfield is 0 in the most recently received HE Operation element from the AP with which it is associated.
* The PPDU is a VHT PPDU where the RXVECTOR parameter PARTIAL\_AID is the BSSID[39:47] of the BSS in which the STA is associated or any of the other BSSs in the same multiple BSSID set or co-hosted BSSID set to which its BSS belongs and the RXVECTOR parameter GROUP\_ID is 0.
* The PPDU is a PPDU with
  + An A-MPDU including TA or RA equal to either the BSSID of the BSS in which the STA is associated or any of the other BSSs in the same multiple BSSID set or co-hosted BSSID set to which its BSS belongs and
  + The RA is not the individual MAC address of the STA or the group address(es) of the STA.
* The PPDU is either an HE MU PPDU or EHT MU PPDU (if the STA is also an EHT STA) (#5034) with the RXVECTOR parameter UPLINK\_FLAG set to 0 or a VHT MU PPDU containing an A-MPDU with
  + The RA(s) in the A-MPDU are equal to the STA’s individual address and
  + The STA has received in the A-MPDU at least one MPDU delimiter with EOF equal to 1 and with MPDU length field equal to 0.

A non-AP HE STA that is in intra-PPDU power save mode and has entered doze state or has become unavailable shall continue to operate its NAV timers and to consider the medium busy and shall transition to the awake state at the end of the PPDU.

A non-AP HE STA that is in intra-PPDU power save mode may discard a PPDU identified as an inter-BSS PPDU as defined in 26.2.2 until the end of the PPDU.

NOTE—The STA can contend for access to the medium immediately on the expiry of the NAV timers.