IEEE P802.11
Wireless LANs

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| CR on 27.14.1 |
| Date: 2017-05-02 |
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Abstract

This submission proposes resolutions for multiple comments related to TGax D1.0 with the following CID:

* CID: 6052

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 TGax Draft. This introduction is not part of the adopted material.

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

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

# Intra-PPDU PS (27.14.1)

| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| --- | --- | --- | --- | --- | --- |
| 6052 | 199.21 | 27.14.1 | Intra-BSS PPDU Power saving is a micro sleep PS method based on the PPDU duration in order to minimize the STA's power consumption. In DL MU PPDU, if there is no its STA ID in STA list of SIG-B of Intra-PPDU, the STA can enter the Doze state. However, in DL MU PPDU, an A-MPDU for a STA can carry longer padding frames rather than other A-MPDUs. When the padding is very long, it's efficient for the STA to enter the Doze state during padding frames. | Add the operation mentioned in the comment into subclause 27.14.1 | Revised- Agree in principal. The Intra-PPDU PS could be adopted to intended HE MU PPDU when A-MPDU of the receipient in the PPDU contains the A-MPDU padding as the below suggested text.That is, in this case the receipient may enter the doze state during the EOF padding duration.TGax editor makes changes as shown in the as specified in 11-17/0644r1. |

**TGax Editor: Modify the subclause 27.15.1 (27.14.1 Intra-PPDU power save for non-AP HE STAs ) as follows:**

**27.14.1 Intra-PPDU power save for non-AP HE STAs**(#6256)

Intra-PPDU power save is the power save mechanism for an HE STA to enter the doze state until the end of a received PPDU which is identified as an Intra-BSS frame by the below conditions listed in this subclause.(#8241)

A non-AP HE STA(#6256) that(#Ed) has dot11IntraPPDUPowerSaveOptionActivated equal to true operates in intra-PPDU power save mode.

A non-AP HE STA(#6256) that is in intra-PPDU power save mode may enter the doze state until the end of a PPDU currently being received when one of the following conditions is met:

* The PPDU is an HE MU PPDU where the RXVECTOR parameter BSS\_COLOR is the BSS color of the BSS with which the STA is associated, the RXVECTOR parameter UL\_FLAG is 0 and the RXVECTOR parameter STA\_ID\_LIST does 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 to which it is associated(#6055).
* The PPDU is an HE MU PPDU, HE SU PPDU or HE ER SU PPDU and one of the following conditions are true:
	+ The RXVECTOR parameter BSS\_COLOR is the BSS color of the BSS with which the STA is associated, the RXVECTOR parameter UL\_FLAG is 1 and the BSS Color Disabled subfield is 0 in the most recently received HE Operation element from the AP to which it is associated (#6055).
	+ The RXVECTOR parameter BSS\_COLOR is the BSS color of the BSS with which the STA is associated, the RXVECTOR parameter UL\_FLAG is 0 and a PHY-RXEND.indication(UnsupportedRate) primitive was received and the BSS Color Disabled subfield is 0 in the most recently received HE Operation element from the AP to which it is associated(#6055).
* The PPDU is an HE TB PPDU where the RXVECTOR parameter BSS\_COLOR is the BSS color of the BSS with which the STA is associated and the BSS Color Disabled subfield is 0 in the most recently received HE Operation element from the AP to which it is associated(#6055).
* The PPDU is a VHT PPDU where the RXVECTOR parameter PARTIAL\_AID is the BSSID[39:47] of the BSS with which the STA is associated 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 with which the STA is associated or the BSSID of any BSS of a multiple BSSID set that the STA's associated BSS belongs to and,
	+ The RA is not the individual MAC address of the STA or the group address(es) of the STA(#6055)
* The PPDU is either an HE MU PPDU with the RXVECTOR parameter UL\_FLAG set to 0 or a VHT MU PPDU, containing an A-MPDU with
	+ The RA(s) in the A-MPDU is(are) equal to the STA’s individual address and,
	+ The STA has received in the A-MPDU at least one MPDU delimeter with EOF equal to 1 and with MPDU length field equal to 0. (#6052)

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

A~~n HE~~ non-AP HE STA that is in intra-PPDU power save mode may discard a PPDU identified as an inter-BSS frame as defined in 27.2.1 (Intra-BSS and inter-BSS frame detection) until the end of the PPDU.(#7602, #5506, #5938, #8242, #9602)
NOTE—The STA can contend for access to the medium immediately on the expiry of the NAV timers.