IEEE P802.11
Wireless LANs

|  |
| --- |
| PDT-MAC-TWT SP Management |
| Date: 2024-12-09 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Muhammad Kumail Haider | Meta Platforms, Inc. |  |  | haiderkumail@meta.com |
| Zhanjing Bao  | TCL |  |  |  |
| Pascal Viger  | Canon |  |  |  |
| Gwangho Lee | Korea National University of Transportation |  |  |  |
| Seongho Byeon | Samsung Electronics |  |  |  |
| SunHee Baek | LGE |  |  |  |
| Thomas Handte | Qorvo |  |  |  |
| Alfred Asterjadhi | Qualcomm |  |  |  |
| Abhishek Patil | Qualcomm |  |  |  |
| Yue Zhao | Huawei |  |  |  |
| Yunbo Li | Huawei |  |  |  |
| Jonghoe Koo | Samsung |  |  |  |
| Laurent Cariou | Intel |  |  |  |
| Brian Hart | Cisco Systems, Inc. |  |  |  |
| Yajun Cheng | Xiaomi |  |  |  |
| Woojin Ahn | KNUT |  |  |  |
| Yingqiao Quan | Spreadtrum |  |  |  |
| Giovanni Chisci | Qualcomm |  |  |  |
| Patrice Nezou | Canon |  |  |  |
| Dibakar Das | Intel |  |  |  |
| Binita Gupta | Cisco Systems, Inc. |  |  |  |
| Rubayet Shafin | Samsung |  |  |  |
| Qing Xia | Sony |  |  |  |
| Sanket Kalamkar | Qualcomm |  |  |  |
| Ross Jian Yu | Huawei |  |  |  |
| Shawn Kim | WILUS |  |  |  |
| Insun Jang | LGE |  |  |  |
| Jason Yuchen Guo | Huawei |  |  |  |
| Liwen Chu | NXP |  |  |  |
| Yue Zhao | Huawei |  |  |  |
| Atsushi Shirakawa | SHARP CORPORATION |  |  |  |
| Hanqing Lou | Interdigital |  |  |  |
| Liuming Lu | Oppo |  |  |  |
| Aditi Singh | Charter Communications |  |  |  |
| Jeongki Kim | Ofinno |  |  |  |
| Yan Li | ZTE |  |  |  |

Abstract

This document contains Proposed Draft Text (PDT) for the TWT SP management feature of the proposed TGbn (UHR, Ultra High Reliability) amendment to the 802.11 standard.

This version of PDT includes the motions passed in IEEE up to November 2024.

# Revision information

The following is a summary of the important changes that occurred within each revision of this document:

|  |  |
| --- | --- |
| **Revision** | **Major changes** |
| 0 | Initial revision |
| 1 | Removed signaling specifics and kept it TBD based on group’s feedback |
|  |  |
|  |  |
|  |  |
|  |  |

# 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 TGbn Draft. The abstract, revision information, introduction, explanation of the proposed changes and references sections are not part of the adopted material.

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

## Explanation of the proposed changes:

The proposed changes to the 802.11 TGbn draft within this document are based on the following motions adopted by the TGbn task group:

### Relevant passed motions:

[Motion #31, [1]]

* **11bn defines a mechanism that enables a non-AP STA to indicate that it does not have pending traffic to deliver during the current ongoing TWT SP.**
	+ NOTE 1 – The exact signaling mechanism is TBD
	+ NOTE 2 – This does not propose changing the SP termination mechanism/signaling itself. As per current spec, a TWT SP may be terminated by an AP as specified in 26.8.5
	+ NOTE 3 – It is optional for the non-AP STA to provide such an indication

# Text to be adopted begins here:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

***TGbn editor: Please insert the following subclause in P802.11bnD0.1:***

**37.x UHR TWT operation**

**37.x.1 TWT SP Management**

﻿A UHR STA that is a TWT requesting STA or a TWT scheduled STA may use TBD signaling during an on-going TWT SP to indicate that the STA does not have any pending traffic for the remainder of the current TWT SP.

# Text to be adopted ends here.

**References:**

1. [11-24-0171r21](https://mentor.ieee.org/802.11/dcn/24/11-24-0171-21-00bn-tgbn-motions-list-part-1.pptx): 11-24-0171-21-00bn-tgbn-motions-list-part-1, Alfred Asterjadhi (Qualcomm Inc.)