**IEEE P802.11
Wireless LANs**

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| 11bn PDT MAC Flexible Multiple BSSID Set |
| **Date**: July 30, 2025  |
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 **Abstract**

This document contains Proposed Draft Text (PDT) for the Flexible Multiple BSSID Set feature of the proposed 11bn/UHR amendment to the 802.11 standard.

Baseline for this document is 11bn D0.3.

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# Revision information

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

|  |  |
| --- | --- |
| **Revision** | **Major changes** |
| 0 | Initial version |

**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 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 TGbe Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

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

**Text to be adopted begins here.**

***TGbn editor: Please add a new UHR Operating Modes element as shown below***

* UHR Operating Modes Element

The format of the UHR Operating Modes element is shown in Figure9-aa1 (UHR Operation element format).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Element ID | Length | Element ID Extension | UHR Operating ModesEnablement | P-EDCA Operation Parameters | DUO Operation Parameters |
| Octets: | 1 | 1 | 1 |  1 | 0 or 3 | 0 or 1  |

﻿ **Figure 9-xx1—UHR Operating Modes element format**

﻿The Element ID, Length, and Element ID Extension fields are defined in 9.4.2.1 (General)

The UHR Operating Modes Enablement field indicates enablement status for UHR operating modes. ﻿The format of the UHR Modes Enablement field is shown in Figure 9-aa1 (UHR Operating Modes Enablement field format).

|  |  |  |  |
| --- | --- | --- | --- |
|  | P-EDCA Enabled | DUO Operation Parameters Present | Reserved |
| Bits: |  1 |  1 |  6 |

Figure 9-xx2 —UHR Operating Modes Enablement field format

The P-EDCA Enabled field indicates whether P-EDCA operation is enabled at the AP transmitting this field. The P-EDCA Enabled field is set to 1 to indicate that P-EDCA operation is enabled and is set to 0 otherwise.

The DUO Operation Parameters Present field indicates whether the DUO Operation Parameters field is included in the UHR Operating Modes element. The DUO Operation Parameters Present field is set to 1 if the DUO Operation Parameters field is included in the UHR Operating Modes element, else this field is set to 0.

The P-EDCA Operation Parameters field is included if P-EDCA Enabled field is set to 1, else this field is not included. Encoding of this field is same as defined in 9.4.2.X.4 (Mode Specific Parameters for P-EDCA).

The DUO Operation Parameters field is included if the DUO Operation Parameters Present field is set to 1, else this field is not included. The DUO Operation Parameters field is set to the Mode Specific Parameters for DUO as defined in 9.4.2.X.3 (Mode Specific Parameters for DUO)

***TGbn editor: Please add a new subclause 37.xx Flexible Multiple BSSID Set as shown below***

37. Ultra-high reliability (UHR) MAC specification

﻿**37.xx Flexible Multiple BSSID Set**

In a multiple BSSID set, a nontransmitted BSSID profile may include the UHR Operation, UHR Capabilities and other UHR elements in the Non-Inheritance element, to indicate that the nontransmitted BSSID is a non-UHR EHT BSSID.

In a multiple BSSID set, all UHR BSSIDs shall have same enablement status and operating parameters for NPCA, DSO, AP PUO, DBE and DPS (mobile-AP) operating modes. In a multiple BSSID set, UHR BSSIDs may have per-BSSID specific enablement status and operation parameters for P-EDCA. In a multiple BSSID set, UHR BSSIDs may have per-BSSID specific operation parameters for DUO.

NOTE – Enablement status and operating parameters for P-EDCA is carried in the UHR Operating Modes element. Operating parameters for DUO is carried in the UHR Operating Modes element.

In a multiple BSSID set, if the content of UHR Operating Modes element is different for a UHR nontransmitted BSSID than the UHR transmitted BSSID, then the corresponding nontransmitted BSSID profile carries a UHR Operating Modes element (i.e. the UHR Operating Modes element is not inherited), else the UHR Operating Modes element is inherited for a UHR nontransmitted BSSID.

**Text to be adopted ends here.**