IEEE P802.11
Wireless LANs

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|  PDT MAC UHR operation element |
| Date: 2025-01-02 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Ming Gan | Huawei |  |  | ming.gan@huawei.com |
|  |  |  |  |  |

Abstract

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

Revisions:

* Rev 0: Initial version of the document.
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 TGbn 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 TGbn 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.***

1. **Proposed spec text**

**9.3.3.6. Association Response frame format**

***TGbn editor: Please insert a new row as follows:***

**Table 9-65—Association Response frame body**

|  |  |  |
| --- | --- | --- |
| **Order** | **Information** | **Notes** |
| … |  |  |
| <Last assigned + 2> |  UHR Operation | The UHR Operation element is present if dot11UHROptionImplemented is true; otherwise, it is not present. |

**9.3.3.8 Reassociation Response frame format**

***TGbn editor: Please insert a new row as follows:***

**Table 9-67—Reassociation Response frame body**

|  |  |  |
| --- | --- | --- |
| **Order** | **Information** | **Notes** |
| … |  |  |
| <Last assigned + 2> |  UHR Operation | The UHR Operation element is present if dot11UHROptionImplemented is true; otherwise, it is not present. |

**9.3.3.10 Probe Response frame format**

***TGbn editor: Please insert a new row as follows:***

**Table 9-69—Probe Response frame body**

|  |  |  |
| --- | --- | --- |
| **Order** | **Information** | **Notes** |
| … |  |  |
| <Last assigned + 2> |  UHR Operation | The UHR Operation element is present if dot11UHROptionImplemented is true; otherwise, it is not present. |

**9.4.2 Elements**

**9.4.2.1 General**

***TGbn editor: Please insert a new row as follows:***

**Table 9-130—Element IDs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Element** | **Element ID** | **Element ID Extension** | **Extensible** | **Fragmentable** |
| … |  |  |  |  |
| UHR Operation (see [9.4.2.x (UHR](#_bookmark180)  [Operation element)](#_bookmark180)) | 255 | <ANA> | Yes | No |

***TGbn editor: Please insert a new subclause as follows:***

**9.4.2.x UHR Operation element**

The operation of UHR STAs in an UHR BSS is controlled by the following:

* The HT Operation element, HE Operation element, EHT Operation, and UHR Operation element if operating in the 2.4 GHz band
* The HT Operation element, VHT Operation element (if present), HE Operation element, EHT Operation element, and UHR Operation element if operating in the 5 GHz band
* The HE Operation element, EHT Operation element and UHR Operation element if operating in the 6 GHz band

The format of the UHR Operation element is shown in [Figure 9-X (UHR Operation element format)](#bookmark181).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Element ID | Length | Element ID Extension | UHR Operation Parameters | Basic UHR-MCS And Nss Set |

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**Figure 9-X—UHR Operation element format**

The Element ID, Length, and Element ID Extension fields are defined in [9.4.2.1 (General)](#bookmark6).

The Basic UHR-MCS And NSS Set field indicates the UHR-MCSs for each number of spatial streams in UHR PPDUs that are supported by all UHR STAs in the BSS (including IBSS and MBSS) for transmission and reception. The Basic UHR-MCS And NSS Set field is defined in Figure 9-xxx (UHR-MCS Map (20 MHz-Only Non-AP STA) subfield and Basic UHR-MCS And NSS Set field format) [TBD].