IEEE P802.11
Wireless LANs

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| PDT-Setting TXVECTOR parameters for UHR PPDU |
| Date: 2025-07-01 |
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Abstract

This submission proposes PDT for setting TXVECTOR parameters for UHR PPDU that is missing in TGbn draft.

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**Revisions:**

* Rev 0: Initial version of the document.

**Discussion:**

The TGbn draft is missing the subclause for setting TXVECTOR parameters for UHR PPDU. Generally, UHR STA will follow the rule of setting TXVECTOR parameters for HE/EHT PPDU (e.g., 26.11 Rules for setting some TXVECTOR parameters for PPDUs transmitted by an HE STA or 35.11.1 Setting TXVECTOR parameters for an EHT PPDU). We can describe the rule of setting TXVECTOR parameters for UHR PPDU like rules for EHT PPDU.

**Proposed texts:**

***TGbn editor: Chage the subclause 37.11 in the latest version of TGbn Draft as follows:***

**37.10 Nominal packet padding values selection rules**

(#2034)For a UHR MU PPDU, the PE requirements of UEQM with the constellation order x of the first spatial stream is equal to the PE requirements of EQM with the constellation order x.

***TGbn editor: Change all “37.11”s to all “37.10”s in all references at the latest version of TGbn Draft globally.***

***TGbn editor: Chage the subclause 37.10 in the latest version of TGbn Draft as follows:***

**37.11 Rules related to the PHY interface of an UHR STA**

**37.11.1 Setting TXVECTOR parameters for a UHR PPDU**

**37.11.1.1 STA\_ID**

A UHR STA shall set the the TXVECTOR parameter STA\_ID following the rules defined in 35.11.1.1 (STA\_ID) with the following additions:

—The rules that apply to an EHT MU PPDU shall also apply to a UHR MU PPDU and a UHR ELR PPDU

**37.11.1.2 POWER\_BOOST\_FACTOR**

A UHR STA shall set the the TXVECTOR parameter POWER\_BOOST\_FACTOR following the rules defined in 35.11.1.2 (POWER\_BOOST\_FACTOR) with the following additions:

—The rules that apply to an OFDMA EHT MU PPDU shall also apply to an OFDMA UHR MU PPDU

—The rules that apply to a non-OFDMA EHT MU PPDU shall also apply to a non-OFDMA UHR MU PPDU

NOTE—The POWER\_BOOST\_FACTOR is not present in the TXVECTOR in a UHR TB PPDU or a UHR ELR PPDU.

**37.11.1.3 UPLINK\_FLAG**

A UHR STA shall set the TXVECTOR parameter UPLINK\_FLAG following the rules defined in 26.11.2 (UPLINK\_FLAG) and 35.11.1.3 (UPLINK\_FLAG) with the following additions:

—The rules that apply to an EHT MU PPDU shall also apply to a UHR MU PPDU

—The rules that apply to an HE ER PPDU shall also apply to a UHR ELR PPDU

**37.11.1.4 BSS\_COLOR**

A UHR STA shall set the TXVECTOR parameter BSS\_COLOR following the rules defined in 35.11.1.4 (BSS\_COLOR) with the following additions:

—The rules that apply to an EHT MU PPDU shall also apply to a UHR MU PPDU

A UHR STA that transmits a UHR ELR PPDU shall set the TXVECTOR parameter BSS\_COLOR to the BSS Color subfield of the most recently received or transmitted HE Operation element exchanged within the BSS that the UHR STA is a member of.

NOTE–The value 0 for the TXVECTOR parameter BSS\_COLOR is disallowed for ELR PPDUs (i.e., only the active BSS color can be used). The BSS Color subfield in the HE Operation element is never 0.

**37.11.1.5 TXOP\_DURATION**

A UHR STA shall set the TXVECTOR parameter TXOP\_DURATION following the rules defined in 26.11.5 (TXOP\_DURATION) and 35.11.1.5 (TXOP\_DURATION) with the following additions:

—The rules that apply to an EHT MU PPDU shall also apply to an UHR MU PPDU

—The rules that apply to an HE ER PPDU shall also apply to a UHR ELR PPDU

***TGbn editor: Change all “37.10”s to all “37.11”s in all references at the latest version of TGbn Draft globally.***

***TGbn editor: Change all “37.10.1”s to all “37.11.1.2”s in all references at the latest version of TGbn Draft globally:***