IEEE P802.11  
Wireless LANs

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| Comment Resolution on Phase Hopping | | | | |
| Date: 2018-5-7 | | | | |
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Abstract

This submission proposes resolutions of comments received from TGay comment collection.

* CID: 1160.

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| **CID** | **Clause Number(C)** | **Page(C)** | **Line(C)** | **Comment** | **Proposed Change** |
| 1160 |  | 194 | 18 | "A phase hopping capable STA may transmit an EDMG OFDM mode SU PPDU with two streams with phase hopping" -- this needs to be expressed in terms the STA has control over | reword to cite appropriate values of TXVECTOR parameters.  Make similar changes to the following para. That para also seems to be outside the scope of the heading, so adjust the heading to allow open loop precoding or move the para to a new subclause. |

**Proposed Resolution: Revised**

These comments are appropriate. Therefore, the following text is proposed.

***TGay Editor: Please modify subclause “10.60 EDMG phase hopping operation (P244, L34) , [1]” as follows***

* 1. EDMG phase hopping and open loop precoding operation

An EDMG STA supports phase hopping modulation defined in 30.6.8.3.8 if the Phase Hopping Supported field in the STA’s EDMG Capabilities element is 1. A phase hopping capable STA may send an EDMG PPDU with the TXVEXTOR parameter PHASE\_HOPPING set to PHASE\_HOPPING\_APPLIED only if the destination STA has set the Phase Hopping Supported subfield in the STA’s EDMG Capabilities element to 1 and the NUM\_STS parameter in the TXVECTOR is set to 2.

An EDMG STA supports open loop precoding defined in 30.6.8.3.8 if the Open Loop Precoding Supported subfield in the STA’s EDMG Capabilities element is 1. An open loop precoding capable STA is also phase hopping capable. An open loop precoding capable STA may send an EDMG PPDU with the TXVECTOR parameter OPEN\_LOOP\_PC set to OPEN\_LOOP\_PRECODING\_APPLIED only if the destination STA has set the Open Loop Precoding Supported subfield in the STA’s EDMG Capabilities element to 1, and the NUM\_ STS paramenter in the TXVECTOR is set to 2 and the PHASE\_HOPPING parameter in the TXVECTOR is set to PHASE\_HOPPING\_APPLIED.

***TGay Editor: Please modify “Table 33 TXVECTOR and RXVECTOR parameters (P278, L1), [1]” as follows***

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| --- | --- | --- | --- | --- |
| PHASE\_HOPPING | FORMAT is EDMG | Indicates whether phase hopping modulation is applied when NSTS = NSS =2.  Enumerated type:  PHASE\_HOPPING\_NOT\_APPLIED: indicates that phase hopping modulation is not applied  PHASE\_HOPPING\_APPLIED: indicates that phase hopping modulation is applied | Y | Y |
| EDMG\_TONE\_PAIRING | FORMAT is EDMG | Used to differentiate between Static and Dynamic Tone Pairing.  Enumerated Type:  STATIC: indicates Static Tone Pairing  DYNAMIC: indicates Dynamic Tone Pairing | Y | Y |
| OPEN\_LOOP\_PC | FORMAT is EDMG | Indicates whether open loop precoding is applied when NSTS = NSS =2.  Enumerated type:  OPEN\_LOOP\_PRECODING\_NOT\_APPLIED: indicates that open loop precoding is not applied  OPEN\_LOOP\_PRECODING\_APPLIED: indicates that open loop precoding is applied | Y | Y |

**Straw poll:**

Do you agree to accept resolutions to CID1160 in 11-18-0735-01-00ay-comment-resolution-on-phase-hopping?

**Reference:**

[1] Draft P802.11ay\_D1.2