IEEE P802.11  
Wireless LANs

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| Proposed Changes for HESTF 80+80MHz sequence | | | | |
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Abstract: This document contains proposed HESTF sequence changes for 11ax D1.4

**Proposed change: 28.3.10.9 HESTF**

**Discussion:** For a 160MHz transmission, the frequency domain sequence for HE PPDU that are not HE TB PPDUs is given by Equation (28-25). This indicates that  as shown in Equation (28-24) is assigned to lower 80MHz frequency segment, and  as shown in Equation (28-26) is assigned to upper 80MHz frequency segment. However, for an 80+80MHz transmission, HESTF sequence defined in Equation (28-24) is assigned to primary 80MHz channel, and HESTF sequence defined in Equation (28-26) is assigned to secondary 80MHz channel. Hence HESTF sequence defined in Equation (28-24) can be assigned to either lower 80MHz frequency segment or upper 80MHz frequency segment in 80+80MHz transmission, depending on where the primary 80MHz channel is located. To avoid design complications due to the inconsist assignments between 160MHz HESTF sequence and 80+80MHz HESTF sequence, HESTF sequence in 80+80MHz transmission should adopt the same HESTF sequences as in 160MHz transmission for lower and upper 80MHz segments. It also aligns with HELTF sequence assignment principle for 80+80MHz transmission.

ax editor: please make the following changes in D1.4 *Clause 28.3.10.9*:

* On P395L41:

For an 80+80 MHz transmission, the lower 80MHz segement for HE PPDU that are not HE TB PPDUs shall use the HE-STF pattern for the 80MHz defined in Equation (28-24).

For an 80+80 MHz transmission, the frequency domain sequence for the upper 80MHz segment for HE PPDUs that are not HE TB PPDUs is given by Equation (28-26).

* On P396L19:

For an 80+80 MHz transmission, the lower 80MHz segement for HE TB PPDUs shall use the HE-STF pattern for the 80MHz defined in Equation (28-29).

For an 80+80 MHz transmission, the frequency domain sequence for the upper 80MHz segment for HE TB PPDUs is given by Equation (28-31).