IEEE P802.11
Wireless LANs

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| Proposed Draft Text for 34.3.2.2 Subcarriers and resource allocation for wideband |
| Date: 2020-08-25 |
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Abstract:

This document proposes draft text for “34.3.2.2 **Subcarriers and resource allocation for wideband**” in TGbe D0.1

The corresponding motions shown in [1] are: 11, 18, 19, 33, 34, 35, 112 (#SP42), 118.

R0: This is a revision of 20/1314r0 by removing Subsection “Wideband spectrum utilization for PPDU transmission”; changing the subclause 34.3.2.2 title to be “Subcarrier and resource allocation for wideband” and updating the corresponding text proposed in 20/1314r0.

**34.3.2 Subcarriers and resource allocation**

**34.3.2.1 General**

**34.3.2.2 Wideband and noncontiguous spectrum utilization**

**34.3.2.2.2 Subcarriers and resource allocation for wideband**

The EHT PHY data subcarrier frequency spacing is identical to that of HE PHY subcarrier frequency spacing defined in Clause 27 (High Efficiency (HE) PHY specification) [2].

The EHT tone plan and RU locations for a 20MHz PPDU and 40MHz PPDU is identical to that of HE PHY defined in Clause 27 (High Efficiency (HE) PHY specification) [2]. The EHT tone plan and RU locations for an 80MHz PPDU is given in Figure XXX below. The same structure is used for an EHT MU and TB PPDU formats. The EHT tone plan for a 160/80+80MHz PPDU consists of the tone plans of two 80MHz segments. the tone plans of The EHT tone plan for a 320/160+160MHz PPDU consists of the tone plans of four 80MHz segments.



Figure XXX – RU Locations in an 80MHz EHT PPDU

For a non-OFDMA 320/160+160MHz EHT PPDU, 12 and 11 null tones are placed at the left and right edges, respectively, in each 160MHz segment.

For a non-OFDMA EHT PPDU:

* The tone plan of an 80/160/80+80MHz EHT PPDU is identical to that of HE PHY defined in Clause 27 (High Efficiency (HE) PHY specification), with the exception of pilot locations.
* The tone plan of a 320/160+160MHz EHT PPDU is based on duplicated EHT 160MHz tone plan.
* Each non-punctured 80MHz segment in a 160/240/320MHz PPDU uses a 996-tone RU

Any 80MHz segment in an EHT 80/160/240/320MHz PPDU, if it is punctured or used for OFDMA, uses the tone plan shown in Figure XXX.

**References:**

[1] 802.11-20/0566r59, Edward Au, Compendium of straw polls and potential changes to the specification framework document.

[2] P802.11ax\_D6.1.

Visio files

