IEEE P802.11  
Wireless LANs

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| Resolution for CID 238 | | | | |
| Date: 2017-08-25 | | | | |
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##### This submission present a resolution for CID 238.

##### Revision history:

##### R0 – initial version

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| CID | Clause | Page | Line | Comment | Proposed Change |
| 238 |  |  |  | We should not be using "packet" except in specific cases like "Packet Number" and "Null Data Packet" (see also CID 5362) | Scrub them from **19.3.18.5, 20.3.6.4, I.1.8,** T19-9, T19-10, 20.10.2.2.4, TK-2, F19-21, F20-2, F20-6, F20-7, F20-23, 6.5.9, 6.5.10, T8-4, T9-51, T9-161, T9-165, 9.4.2.130, 9.4.2.136, 9.4.2.142.1, 9-245, 9.4.2.158.2, 9.4.2.167, 9.5.3, 9.5.4, 10.3.2.3.3, 10.7.7.1, 10.7.7.5, 10.26.5.1, 10.30, 10.32.2.4.3, 10.32.3, 10.34.1, 10.36.6.2, 10.38.3.1, 10.38.3.2, 10.38.6, 10.38.7, 10.41.3.2.3, 11.6, 12.5.4.4, 12.6.21, 13.6.3, 14.12.2, endemically in the PHYs (and hence the PICS), C.3, G.4, I.5, I.6, I.7, I.8, K.4, P.2, T.2.4, T.2.7  changing to MPDU/PPDU/frame as appropriate (it might help to define "sounding packet" so this term can continue to be used) |

***Discussion:***

As per clause 2.8 of the 802.11 Style Guide (09/1034r11),

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| “Frame” is interpreted based on context. In references to MAC structures, “frame” is synonymous with “MPDU”. In references to PHY structures, “frame” is synonymous with PPDU.  Generally, “frame” is preferred to MPDU, particularly when it is a named frame type. For example: “Ack frame”, not “Ack MPDU”.  Generally, PPDU is preferred to frame in the PHY.  The use of “packet” should be minimized, except where this terminology is defined by external specifications, e.g. IETF.. |

There are, however, approximately 612 instances of “packet” in D0.2 (excluding 21 instances of “packet number” and 25 instances of “null date packet”). Do we want to grandfather the term “packet” that exist in the draft so far, or make the changes as per the CID? If it is the latter, I will prepare a submission that contains suggested line-by-line change as follows.

In subclause 19.3.18.5, the description of the “packet” is about signal extension.

* 2578.37: Replace “Packet alignment” with “PPDU alignment”.
* 2578.42: Replace “following the reception of the last symbol of the packet” with “following the reception of the last symbol of the PPDU”.
* 2578.44: Replace “following the reception of the last symbol of the packet” with “following the reception of the last symbol of the PPDU”.
* 2578.45: Replace “HT-greenfield format packet” with “HT-greenfield format PPDU”.
* 2578.50: Replace “the last symbol of the packet” with “the last symbol of the PPDU”.
* 2578.53: Replace “the last symbol of the packet” with “the last symbol of the PPDU”.
* 2579.13: Replace “Packet alignment example (HT-greenfield format packet with short GI)” with “PPDU aligmemt example (HT-greenfield format PPDU with short GI)”.

In subclause 20.3.6.4, it is about the transmission of the preamble and BRP fields in an OFDM “packet”. Suggestion from Carlos Cordeiro (Intel) is captured as follows:

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| As defined in (20.10.2.2.1), BRP-TX and BRP-RX packets consist of the entire PPDU, i.e., more than just MPDU/frame. Also OFDM/SC packet is essentially OFDM/SC PPDU.  So, the most appropriate fix should be to replace all occurrences of “packet” by “PPDU” for the cases below. |

* 2621.41: Replace “Transmission of the preamble and BRP fields in an OFDM packet” with “Transmission of the preamble and BRP fields in an OFDM PPDU”.
* 2621.53: Replace “To define the transmission of the preamble when the packet is an OFDM packet” with “To define the transmission of the preamble when the PPDU is an OFDM PPDU”.

In subclause I.1.8, it is an example about a packet for the BCC.

* 3620.11: Replace “The entire packet for the BCC example” with “The entire PPDU for the BCC example”.
* 3620.13: Replace “The packet in its entirely” with “The PPDU in its entirely”.