IEEE P802.11  
Wireless LANs

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| PHY CR LB291 on U-SIG Part 1 | | | | |
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Abstract

This submission contains proposed comment resolutions to comments on P802.11bn D1.0. The changes are based on P802.11bn D1.0.

The submission provides resolutions to the following 6 CIDs in the subclause 38.3.15.7.3

* 4046, 8802, 9167, 9775, 11555, 11556

Revisions:

* Rev 0: Initial version of the document.

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| **CID** | **Commenter** | **Clause** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 4046 | Ke Zhong | 38.3.15.7.3 | 385.41 | There is an anomalous space between "0," and "k = 0,+/-7,+/-21". | Remove the anomalous space between "0," and "k = 0,+/-7,+/-21". | Accepted |
| 8802 | Sigurd Schelstraete | 38.3.15.7.3 | 385.28 | In other signal-related Clauses, the superscript is not in parentheses. E.g. r^i\_TX\_L-SIG(t) as opposed to r^(i\_TX)\_U-SIG(t). | Use consistent notation | Revised.  Agree to the comment. The parentheses were not in either 11-24/1977r6 (the first PDT for D0.1) or 11-25/441r2 (PDT CR on D0.1). The parentheses should be deleted.  Instruction to editor: Apply the changes marked (#8802) in 11-25/1798r0. |
| 9167 | Wookbong Lee | 38.3.15.7.3 | 385.18 | Better to mention equation (38-11) is from MU PPDU equation with one 20 MHz subchannel | Replace L18P385 - L25P385 with "For the U-SIG field in a UHR ELR PPDU, the BPSK constellation point assigned to the k-th data subcarrier of the n-th symbol is denoted as d\_{k,n}. The time domain waveform for the U-SIG field of a UHR ELR PPDU, transmitted on transmit chain i\_{TX}, shall be as specified in Equation (38-11) which is the same as that of UHR MU PPDU except it has only one 20 MHz subchannel." | Revised.  Agree to the comment. Slightly change the proposed text to “, which is the same as that of a UHR MU PPDU except that it has only one 20 MHz subchannel”.  Instruction to editor: Apply the changes marked (#9167) in 11-25/1798r0. |
| 9775 | Ying Wang | 38.3.15.7.3 | 385.11 | "Delta\_{GI, Pre-EHT}" and "Delta\_{GI, Pre-UHR}" should be replaced with "T\_{GI, Pre-EHT}" and "T\_{GI, Pre-UHR}", respectively. | As in Comment | Accepted |
| 11555 | Jialing Li | 38.3.15.7.3 | 385.03 | Split the sentence into two sentences, one for MU PPDU and TB PPDU, and the other for ELR PPDU. | Refer to the comment. | Revised.  This was my own comment and original thought. But now I feel the sentence is clear enough and doesn’t need to be split. Only change “and” to “or”.  Instruction to editor: Apply the changes marked (#11555) in 11-25/1798r0. |
| 11556 | Jialing Li | 38.3.15.7.3 | 385.15 | Change "Equation (38-5)" to "Equation (38-4) and Equation (38-5)". | Refer to the comment. | Accepted |

**Instruction to editor:**

Please apply the changes in the following text to 38.3.15.7.3.

* Encoding and modulation

For a UHR MU PPDU, UHR TB PPDU or UHR ELR PPDU, the U-SIG field shall use the same encoding and modulation process as that of the U-SIG field in an EHT MU PPDU or (#11555)EHT TB PPDU, as described in 36.3.12.7.3 (Encoding and modulation).

The time domain waveform for the U-SIG field of a UHR MU PPDU and a UHR TB PPDU, transmitted on transmit chain , shall be as specified in Equations (36-20) and (36-21), respectively, where the parameters and (#9775) in both equations and in Equation (36-21) shall be replaced by their UHR counterparts, , (#9775) and (#937), respectively, where these parameters are defined in 38.3.14.4 (Transmitted signal) and in particular, is defined in Equation (38-4) and(#11556) Equation(38-5)(#937).

Compared to the U-SIG field of a UHR MU PPDU, the U-SIG field in a UHR ELR PPDU has only one 20 MHz subchannel(#938). (#321, #939, #1163)For the U-SIG field in a UHR ELR PPDU, the BPSK constellation point assigned to the *k*-th data subcarrier of the *n*-th symbol is denoted as . The time domain waveform for the U-SIG field of a UHR ELR PPDU, transmitted on transmit chain , shall be as specified in Equation(38-11), which is the same as that of a UHR MU PPDU except that it has only one 20 MHz subchannel(#9167).



(#8802)(#8, #940)where

(#8, #940) is defined as in 21.3.7.5 (Definition of tone rotation).

(#4046)

and are defined in 17.3.5.10 (OFDM modulation).

Other variables in Equation(38-11) are defined in 38.3.13 (Timing-related parameters) and 38.3.14 (Mathematical description of signals).