IEEE P802.11
Wireless LANs

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| [The Comment resolution for 32.3.8.2.5] |
| Date: 2020-01-11 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Dongguk Lim | LG Electronics | 19, Yangjae-Daero 11 gil, Seoch-gu, Seoul, Korea |  | dongguk.lim@lge.com |
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Abstract

This submission proposes resolutions for following 3 CIDs: 1116, 1664, and 1773

Revisions:

* Rev 0: Initial version of the document.
* Rev 1 : Resolution and document link updated

## CID 1116, 1664, and 1773

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| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 1116 | 66.6 | 32.3.8.2.5 | In Eq 32.11 p1 is not defined | define p1 | Revised. Agree to comment. It should be defined to clearly understand. TGbd Editor: Incorporate the changes in https://mentor.ieee.org/802.11/dcn/21/11-21-0025-01-00bd-the-comment-resolution-for-32-3-8-2-5.docx |
| 1664 | 66.6 | 32.3.8.2.5 | In (32-9) p0 is used. In (32-11) a p1 is used but not defined after the equation. | Replace p1 with p0 in (32-11) | Rejected. Pn is the value defined according to the order of OFDM symbol as described in clause 17.3.5.10 and because the RL-SIG is the second OFDM symbol, p1 should is applied to this OFDM symbol. |
| 1773 | 65.50 | 32.3.8.2.5 | 32.3.8.2.5 RL-SIG definition should not be included in 32.3.8.2 Non\_NGV portion of NGV format preamble since RL-SIG is not part of Non-NGV portion. "The RL-SIG field is a repeat of the L-SIG field and is used to differentiate an NGV PPDU from a non-NGV PPDU." | Please move this subclause to 32.3.8.3 NGV portion of NGV format preamble32.3.8.3 NGV portion of NGV format preamble | Revised.In principle, the commenter is right. The Non-NGVportion of NGV format preamble means the following 3 fields. L-STF, L-LTF and L-SIG. so, it is right that the description of RL-SIG field moves to the NGV portion of NGV format preamble.TGbd Editor: Incorporate the changes in https://mentor.ieee.org/802.11/dcn/21/11-21-0025-01-00bd-the-comment-resolution-for-32-3-8-2-5.docx |

Propose :

***TGbd editor: delete the description of RL-SIG definition in 32.3.8.2.5 and add the following description of RL-SIG to next of 32.3.8.3.2 and change the order of sub-clause.***

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**32.3.8.3.3 RL-SIG definition (**#1773)

The RL-SIG field is a repeat of the L-SIG field and is used to differentiate an NGV PPDU from a non-NGV PPDU. RL-SIG shall be modulated same as L-SIG.

The time domain waveform of the RL-SIG field shall be as given by Equation (32- 11).

$r\_{RL-SIG}^{\left(i\_{TX}\right)}\left(t\right)=\frac{1}{\sqrt{N\_{TX}N\_{RL-SIG}^{Tone}}}w\_{T\_{L-SIG}}(t)η\_{L-RSIG}\sum\_{i\_{BW=0}}^{N\_{10MHz}-1}\sum\_{k=-26}^{26}\left(\begin{matrix}γ\_{k-K\_{shift}(i\_{BW}),BW}(D\_{k,10}+p\_{1}P\_{k})\\ ∙exp⁡(j2π(k-K\_{shift}\left(i\_{BW}\right))∆\_{F}(t-T\_{GI}-T\_{cs}^{i\_{TX}})\end{matrix}\right)$ (32-11)

Where

$N\_{RL-SIG}^{Tone}$ has the value given in Table 32-8 (Tone scaling factor and guard interval duration values for NGV fields)

$p\_{1}$ is the second pilot value in the sequence defined in 17.3.5.10 (OFDM modulation) (#1116)

$$η\_{L-RSIG}=1$$

**32.3.8.3.~~34~~ NGV-SIG definition**

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**32.3.8.3.~~4~~5 RNGV-SIG definition**

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**32.3.8.3.~~5~~6 NGV-STF definition**

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**32.3.8.3.~~6~~7 NGV-LTF definition**

**References:**

**[1] 802.11bd D1.0**