IEEE P802.11
Wireless LANs

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| [The Comment resolution for 32.3.8.2.3] |
| Date: 2020-01-11 |
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Abstract

This submission proposes resolutions for following 3 CIDs: 1081, 1775, and, 1777

Revisions:

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

## CID 1081, 1775, and, 1777

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| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 1081 | 64.3 | 32.3.8.2.3 | Eq 32-7 only covers 10MHz case. Need to cover 20Mhz too | as in comment | Revised. The commenter is right. NGV supports both the 10MHz transmission and 20MHz transmission. And, the L-STF field of 10MHz transmission is duplicated per 10MHz in 20MHz transmission. So, Eq32-7 should be modified to cover the 20MHz transmission.   TGbd Editor: Incorporate the changes in https://mentor.ieee.org/802.11/dcn/21/11-21-0023-01-00bd-the-comment-resolution-for-32-3-8-2-3.docx |
| 1775 | 64.3 | 32.3.8.2.3 | In Equation (32-7), &#951;\_L-LTF is included while it is not included in the general subfield equation (32-3). &#951;\_field should be included in equation (32-3) to be consistent | See comment | Revised The commenter is right. The parameter of power boosting for L-STF and L-LTF should be included in equation 32-3.Please refer the resolution for CID 1174 in 11-21/0023r0Note to editor: Same resolution for CID 1174 in https://mentor.ieee.org/802.11/dcn/21/11-21-0022-01-00bd-the-comment-resolution-for-32-3-8-2-2.docx. |
| 1777 | 64.3 | 32.3.8.2.3 | In Equation (32-7), k range from -26 to 26, which only covers 10MHz L-LTF definition. | Please change k range to -NSR to NSR which includes both 10MHz and 20MHz NGV PPDU. | Revised. The commenter is right. NGV supports both the 10MHz transmission and 20MHz transmission. And, the L-STF field of 10MHz transmission is duplicated per 10MHz in 20MHz transmission. So, Eq32-7 should be modified to cover the 20MHz transmission. Note to editor: Same resolution for CID 1081 in https://mentor.ieee.org/802.11/dcn/21/11-21-0023-01-00bd-the-comment-resolution-for-32-3-8-2-3.docx. |

Propose :

***TGbd editor:***

***Please modify the equation 32-7 as follows and add the following text to below P64L54***

$$r\_{L-LTF}^{\left(i\_{TX}\right)}\left(t\right)=\frac{1}{\sqrt{N\_{TX}N\_{L-LTF}^{Tone}}}w\_{T\_{L-LTF}}(t)η\_{L-LTF}\sum\_{i\_{BW=0}}^{N\_{10MHz}-1}\sum\_{k=-26}^{26}\left(γ\_{k,BW}γ\_{k-K\_{shift}(i\_{BW}),BW}S\_{k}L\_{k,10}exp⁡(j2πk∆\_{F,NGV}(t-T\_{cs}^{i\_{TX}})\right)$$

(#1081, #1777, #1114)

$$N\_{10MHz}= \left\{\begin{matrix}1, if dot11CurrentChannelWidth indicates 10MHz\\2, if dot11CurrentChannelWidth indicates 20MHz\end{matrix}\right.$$

$$K\_{shift}\left(i\right)=(N\_{10MHz}-1-2i)∙32$$

$L\_{k,10}$ is defined as $L\_{-26,26}$in equations (19-11) (#1113)

**References:**

**[1] 802.11bd\_D1.0**