IEEE P802.11
Wireless LANs

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| Improvement Comment on Clause 28.3.3.4 (Pilot subcarriers)  |
| Date: 2017-07-10 |
| Author(s): |
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Abstract

This submission proposes a newly updated comment for the comment # 7852 on Clause 28.3.3.4 of TGax D1.3:

The comment resolution on # 7852 was completed in the May meeting, 2017; however, more improvement on the resolution was suggested by Ron Porat affiated with Broadcom, which is reflected in this updated comment.

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Change of the title, Abstract, and resolution.

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGax Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGax Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGax Editor: Editing instructions preceded by “TGax Editor” are instructions to the TGax editor to modify existing material in the TGax draft. As a result of adopting the changes, the TGax editor will execute the instructions rather than copy them to the TGax Draft.***

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| **Corresponding CID** | **Clause Number** | **P.L** | **Comment** | **Proposed Change** | **Resolution** |
| 7852 | 28.3.3.4 | 236.34(based on D1.0) | What about 2x HE-LTF case, is it always present?  | Clarify | Revisited and improved —The comment resolution done in May for CID # 7852 implies that there is a tone index for 2x data symbol, actually there is not. Only, there are indices for 1x and 4x data symbols. So, the following text in red below is suggested to avoid the 2x data symbol tone index issue.TGax Editor to make the changes shown in IEEE 802.11-17/1016r1 below this table in red tag #7852. |

***TGax Editor: Please edit D1.3, Pg 317, ln 39- 41 in section 28.3.3.4 as follows:***

If pilot subcarriers are present in the HE-LTF field of an HE SU PPDU, HE MU PPDU, HE ER SU PPDU, or HE TB PPDU, the pilot subcarrier locations in the HE-LTF field and Data field shall be the same, except for the 1x HE-LTF and 2x HE-LTF. In a 1x HE-LTF, the pilot subcarrier locations in the HE-LTF only consist of the pilot subcarriers for the Data field that are multiples of four. ~~If pilots subcarriers are present in a 2x HE-LTF, then their tone indices shall be the same as the indices of those pilot subcarriers in a 4x data symbol divided by 2(#7852).~~ If pilot subcarriers are present in a 2x HE-LTF, their locations shall be the same as those pilots in a 4x data symbol (#7852). All pilot subcarriers are at the even indices enumerated in Table 28-9 (Pilot subcarrier indices).

**References:**

1. **IEEE P802.11axTM/D1.3, Jun 2017**