IEEE P802.11
Wireless LANs

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| LB189 D2.0 comment resolution (PHY – Transmit center frequency and symbol clock frequency tolerance) |
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Abstract

This document contains proposed resolution of some of the comments categorized as transmit center frequency and symbol clock frequency tolerance in LB189 of P802.11af D2.0. Proposed resolutions are based on 802.11af draft text D2.0.

This submission provides resolution to comments 20, 397, 543, 749 and 797.

**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 TGaf Draft. This introduction is not part of the adopted material.

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

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

***Submission Note: Notes to the reader of this submission are not part of the motion to adopt. These notes are there to clarify or provide context.***

# Transmit center frequency and symbol clock frequency related comments

| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** |
| --- | --- | --- | --- | --- |
| 20 | 250.53 | 23.3.18.3 | in 11ac the transmit center frequency and symbol clock frequency are the same | make transmit center frequency and symbol clock frequency are the same |
| 749 | 250.55 | 23.3.18.3 | I don't know why we specify first 25 ppm and then 100 ppm as the frequency and symbol clock tolerance. | Clarify |
| 797 | 250.62 | 23.3.18.3 | Symbol clock frequency tolerance shall be +-25 ppm according to accepted contribution 11-12/0809r5. | Change 100 to 25 in line 62 of page 250. |

**Propose:** Accept CIDs 20, 749 and 797.

The draft 2.0 does not have the correct values from latest PHY submission which was approved during 2012 San Diego meeting. The latest approved document has +-25ppm for maximum allowed transmitter center frequency and maximum symbol clock frequency tolerance.

| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** |
| --- | --- | --- | --- | --- |
| 397 | 250.59 | 23.3.18.3 | Instead of "NOTE--For multi-channel operation, the signal phase of each segment might not be correlated." write "For multi-channel operation, the signal phase of each segment may be uncorrelated." | As in Comment. |
| 543 | 250.59 | 23.3.18.3 | Instead of "NOTE--For multi-channel operation, the signal phase of each segment might not be correlated." write "For multi-channel operation, the signal phase of each segment may be uncorrelated." | As in Comment. |

**Propose:** Accept CIDs 397 and 543. CIDs are editorial change and does not change the meaning of the sentence.

# Editing instructions

***TGaf editor: Change Section 23.3.18.3 as following:***

23.3.18.3 Transmit center frequency and symbol clock frequency tolerance

The transmitter center frequency maximum allowable deviation shall be ±25 ppm. Carrier (LO) and symbol clock frequencies for the all transmit chains and frequency segments shall be derived from the same reference oscillator.

NOTE—For multi-channel operation, the signal phase of each segment ~~might not be correlated~~ might be uncorrelated.

The symbol clock frequency tolerance shall be maximum ~~±100~~ ±25 ppm. The transmit center frequency and the symbol clock frequency for all transmit antennas and contiguous frequency segments shall be derived from the same reference oscillator.