IEEE P802.11  
Wireless LANs

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| LB189 D2.0 comment resolution (PHY – Misc 11af comment resolutions) | | | | |
| Date: 2012-11-11 | | | | |
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Abstract

This document contains proposed resolution of some miscellaneous comments in LB189 of P802.11af D2.0. Proposed resolutions are based on 802.11af draft text D2.0.

This submission provides resolution to comments 652 and 756.

**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.***

# Comments:

| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** |
| --- | --- | --- | --- | --- |
| 652 | 231.12 | 23.2.2 | Replace "is" with "shall be" | Change sentence as "NUM\_STS summed over all users shall be less than or equal to 4. |

**Propose:** Accepted CID 652

Comment: Editorial change.

# Comments:

| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** |
| --- | --- | --- | --- | --- |
| 756 | 231.12 | 23.2.2 | Why change the number of STS for SU to 4 and MU to 3? | Please justify the changes |

**Propose:** Rejected CID 756

Comment: 802.11af has a separate PAR than 802.11ac/n and system requirements are not the same. The main reason we have selected to limit antennas to 4 was simplicity and antenna spacing requirement. 600MHz carrier frequency requires ~4x more spacing between antenna compared to 2.4GHz. Considering we only have up to 4x4 commercial applications of 11n/ac, it makes sense to limit the number of antennas (and STS) to 4.

# Editing instructions

***TGaf editor: Change last paragraph of 23.2.2 as following:***

When the TXVECTOR parameter FORMAT equals to TVHT, the TXVECTOR parameter NUM\_STS indi­cates the number of space-time streams: Integer: range 1-4 for SU, 1-3 per user for MU. NUM\_STS summed over all users ~~is~~ shall be less than or equal to 4. The TXVECTOR parameter NUM\_STS is not present when the TXVECTOR parameter FORMAT equals to NON\_HT.